

IBM Content Manager OnDemand for iSeries
Common Server



Web Enablement Kit Installation and Configuration Guide

Version 5 Release 2

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Common Server



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Note

Before using this information and the product it supports, read the information in Appendix I, "Notices" on page 89.

Second Edition (September 2002)

This edition applies to IBM® Content Manager OnDemand for iSeries™ Common Server, Version 5 Release 2 and to all subsequent releases and modifications until otherwise indicated in new editions. This edition replaces SC27-1163-00.

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Contents

About IBM Content Manager OnDemand for iSeries Common Server Web Enablement Kit Installation and Configuration Guide (SC27–1163). v

Who should read this book	v
How this book is organized	v
Prerequisite and related information	v
Other information available on the World Wide	
Web	vi
iSeries Navigator.	vi
How to send your comments	vi

| Summary of Changes vii

Chapter 1. Overview 1

About the viewers	2
Using ODWEK	3
Product functions.	3
Add Annotation	3
Change Password.	3
Document Hit List	3
Logoff	4
Logon	4
Retrieve Document	4
Search Criteria.	4
Server Print Document	4
Update Document	4
View Annotations.	4
Server and data security	4

Chapter 2. Installing and configuring the Web server 7

Installation requirements	7
Other requirements	7
Installing on OS/400.	8
Your next step	8
Specifying the ARSWWW.INI file	9
[@SRV@_DEFAULT]	9
[@SRV@_server]	10
[CONFIGURATION]	11
[SECURITY]	16
[AFP2HTML].	17
[AFP2PDF]	18
[MIMETYPES]	20
[ATTACHMENT IMAGES]	24
[NO HTML]	25
[DEFAULT BROWSER]	26
[browser]	32
[DEBUG]	33
Example ARSWWW.INI file	33
Your next step	35

Chapter 3. Configuring the sample applications 37

CREDIT.HTM	37
TEMPLATE.HTM	38
Your next step	38

Chapter 4. Installing the Web viewers 39

Overview	39
Requirements.	40
Installation	40
Your next step	41

Appendix A. AFP to HTML transform 43

Format of the AFP2HTML.INI file	43
Options for the AFP2WEB Transform.	44
Viewing converted documents	45

Appendix B. AFP to PDF transform . . . 47

Specifying the AFP2PDF.INI file	47
Viewing converted documents	48

Appendix C. API reference 49

Add Annotation	50
Change Password	52
Document Hit List	54
Logoff	57
Logon	58
Print Document (Server)	60
Retrieve Document	63
Search Criteria	66
Update Document	68
View Annotations	70

Appendix D. Distributing user-defined files 73

Installing the AFP Web Viewer files	74
Adding subdirectories	74
Storing user-defined files	75
Configuring font files	75
Building the AFP Web Viewer installation file	76
Installing the AFP Web Viewer on a user's workstation	76

Appendix E. HTTP server configuration files 79

HTTP Original Server	79
HTTP Apache Server	79

Appendix F. Mapping AFP fonts 81

Appendix G. No HTML output 83

Delimited ASCII output	83
Logon	83
Notes	84
Search Criteria	84

Notes	85
Document Hit List	85
Notes	85
View Annotations	86
Error Message	86
Notes	86

Appendix H. Problem determination tools.	87
---	-----------

Appendix I. Notices	89
Trademarks and service marks	90

Index	93
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About IBM Content Manager OnDemand for iSeries Common Server Web Enablement Kit Installation and Configuration Guide (SC27-1163)

This book provides information that you can use to plan for, install, configure, and use IBM Content Manager OnDemand for iSeries Version 5 Release 2 Common Server Web Enablement Kit (ODWEK).

Who should read this book

This book is intended primarily for system administrators who need to implement, install, and maintain the ODWEK software and applications. It can also be used by programmers who need to integrate OnDemand with Web applications.

How this book is organized

This book provides the information that you need to install and configure ODWEK and plan for users to access data from an IBM Content Manager OnDemand for iSeries Common Server (OnDemand) system with a Web browser. This publication contains the following sections:

- Chapter 1, "Overview" on page 1
- Chapter 2, "Installing and configuring the Web server" on page 7
- Chapter 3, "Configuring the sample applications" on page 37
- Chapter 4, "Installing the Web viewers" on page 39
- Appendix A, "AFP to HTML transform" on page 43
- Appendix B, "AFP to PDF transform" on page 47
- Appendix C, "API reference" on page 49
- Appendix D, "Distributing user-defined files" on page 73
- Appendix E, "HTTP server configuration files" on page 79
- Appendix F, "Mapping AFP fonts" on page 81
- Appendix G, "No HTML output" on page 83
- Appendix H, "Problem determination tools" on page 87

Prerequisite and related information

Use the IBM iSeries Information Center as your starting point for looking up iSeries technical information.

You can access the Information Center two ways:

- From the following Web site: <http://www.ibm.com/eserver/iseries/infocenter>
- From CD-ROMs that ship with your Operating System/400® order:
iSeries Information Center, SK3T-4091-02. This package also includes the PDF versions of iSeries manuals, *iSeries Information Center: Supplemental Manuals*, SK3T-4092-01, which replaces the Softcopy Library CD-ROM.

The Information Center contains advisors and important topics such as Java™, TCP/IP, Web serving, secured networks, logical partitions, clustering, CL

commands, and system application programming interfaces (APIs). It also includes links to related IBM Redbooks™ and Internet links to other IBM Web sites such as the IBM home page.

Other information available on the World Wide Web

More iSeries information is available on the World Wide Web. You can access general information from the iSeries home page, which is at the following Web site: <http://www-1.ibm.com/servers/eserver/iseries/>

To access workshops on advanced iSeries functions, use the Technical Studio, located at: <http://www.iseries.ibm.com/tstudio/>

Worldwide, you can read about, select, order and take delivery of iSeries program temporary fixes (PTF) over the Internet. iSeries Internet PTFs (downloads) and Preventive Service Planning (PSP) information are available at the following Internet location: <http://as400service.ibm.com>

iSeries Navigator

IBM iSeries Navigator is a powerful graphical interface for managing your iSeries servers. iSeries Navigator functionality includes system navigation, configuration, planning capabilities, and online help to guide you through your tasks. iSeries Navigator makes operation and administration of the server easier and more productive and is the only user interface to the new, advanced features of the OS/400®. It also includes Management Central for managing multiple servers from a central system.

You can find more information on iSeries Navigator in the IBM iSeries Information Center and at the following Web site:
<http://www.ibm.com/eserver/iseries/navigator/>

How to send your comments

Your feedback is important to providing the most accurate and high-quality technical documentation. Please send any comments that you have about this publication or other OnDemand documentation. You can use either of the following methods to provide comments:

- Fax your comments from the United States, Canada, and Puerto Rico to 1-800-937-3430 (From other countries: 1-507-253-5192)
- Email your comments to: RCHCLERK@us.ibm.com; for the Information Center, email comments to: RCHINFO@us.ibm.com

Be sure to include the following information:

- The name of the book of iSeries Information Center topic
- The publication number of a book (found in the lower right corner of the books front cover)
- The page number or topic to which your comment applies

Summary of Changes

This edition of *IBM Content Manager OnDemand for iSeries Common Server: Web Enablement Kit Installation and Configuration Guide* contains new and changed technical information. There may be some instances where changes were made, but change bars are missing. Significant changes to note are:

You can automate the loading of non-spoiled file data such as PC files in IFS with the Start Monitor for OnDemand (STRMONOND) command using *DIR (directory) for the TYPE parameter. See Appendix A of the *IBM Content Manager OnDemand for iSeries Common Server: Administration Guide* for information on the STRMONOND command.

Additional keywords have been added to many OnDemand commands to more precisely identify the spooled file that the command will use. The new keywords correspond to the same new keywords available for OS/400 spooled file commands, allowing you to specify the system on which the spooled file was created, as well as the spooled file creation date and time.

Portable Application Solutions Environment (PASE), a product option of OS/400, is now an optional software prerequisite for the OnDemand Common Server. PASE is required if you plan to use the new OnDemand Common Server text search function for AFPDS documents. It is also possible that, in the future, other new functions of OnDemand may require PASE.

Additions and enhancements have been made to the sample programs for both Common Server and Spool File Archive. Sample programs for Common Server can be found in QSAMPLES2 source file in library QRDARS. Sample programs for Spool File Archive can be found in QSAMPLES source file in library QRDARS.

Record Archive provides commands and application programming interfaces (APIs) that let you store and retrieve data records on optical media for users who only require occasional access to historical data. At Version 5 Release 2, this product option is provided for existing Record Archive customers to use, but there are no planned enhancements. Documentation can be found in OnDemand publications from previous releases. Please talk to your software provider about other options, such as compressed DASD.

Chapter 1. Overview

ODWEK allows people in an organization to use a Web browser to access data stored in an OnDemand system. For example, you can provide some people with the Uniform Resource Locator (URL) of a Web page that permits them to log on to an OnDemand server; you can provide other people with the URL of a Web page that permits them to search a specific folder. ODWEK verifies that the user information is valid on the OnDemand server, such as permission to access the server and data stored in an application group. After the user submits a search, ODWEK displays a Web page that contains a list of the documents that match the query. The user selects a document to view and ODWEK sends the document to the browser.

Figure 1 shows a workstation with a Web browser that is being used to access data from an OnDemand server.

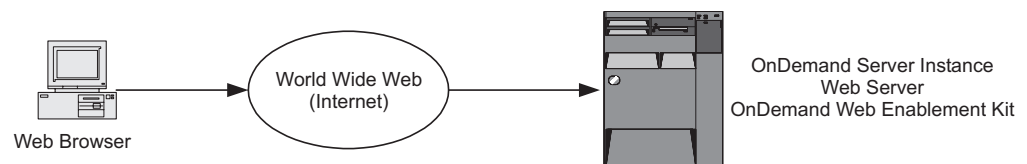


Figure 1. Accessing data stored in OnDemand using ODWEK

ODWEK contains several components:

- The Web server program. The server program uses standard OnDemand interfaces and protocols to access data stored in an OnDemand server. No additional code is needed on the OnDemand server to support ODWEK. You can use one of the following Web server programs to control ODWEK:
 - Common Gateway Interface (CGI) program. The CGI program runs on a system that is running an Hypertext Transfer Protocol (HTTP) server, such as the IBM HTTP Server.
 - Java servlet. The servlet runs on a Java-enabled HTTP server that is running a Java application server, such as the IBM WebSphere® Application Server.
- Java API. A set of APIs that reproduce the CGI interface for Java developers. The APIs require Java version 1.2.2 or later.
- The IBM OnDemand Advanced Function Presentation™ (AFP™) Web Viewer. The AFP Web Viewer lets users search, retrieve, view, navigate, and print AFP documents from a Web browser.
- The IBM OnDemand Image Web Viewer. The Image Web Viewer lets users search, retrieve, view, navigate, and print BMP, GIF, JPEG, PCX, and TIFF documents from a Web browser.
- The Line Data Java applet. The Line Data applet lets users view line data documents from a Web browser. An administrator enables the use of the Line Data applet by configuring the ARSWWW.INI file.
- The AFP2HTML Java applet. The AFP2HTML applet lets users view the output generated by the IBM AFP2WEB Transform service offering. The AFP2WEB Transform converts AFP documents and resources into Hypertext Markup Language (HTML) files that can be displayed with the AFP2HTML applet. After installing and configuring the AFP2WEB Transform, an administrator enables the use of the AFP2HTML applet by configuring the ARSWWW.INI file.

Note: To view other types of documents stored in OnDemand, you must obtain and install the appropriate viewer. For example, to view Adobe Portable Data Format (PDF) documents, IBM recommends that you obtain the Adobe Acrobat viewer for the browsers that are used in your organization.

About the viewers

ODWEK provides the following viewers:

- AFP Web Viewer
- Image Web Viewer
- Line Data Java applet
- AFP2HTML Java applet

The AFP Web Viewer and the Image Web Viewer are software programs that extend the capabilities of a Web browser in a specific way. The AFP Web Viewer lets users view AFP documents. The Image Viewer lets users view BMP, GIF, JPEG, PCX, and TIFF documents. The viewers provide the capability to display documents in the browser window. Each viewer adds a toolbar to the top of the display window. The viewer toolbar may be in addition to the browser's toolbar. The plug-in toolbar provides controls that can help users work with documents. The people in your organization that plan to use the Web viewers to view documents must install them on their workstations.

Note: The installation program will install the viewers as either plug-ins or ActiveX controls. If Internet Explorer is installed on the workstation, then the installation program will install the ActiveX controls; if Netscape is installed on the workstation, then the installation program will install the plug-ins. If you have both Internet Explorer and Netscape installed on the workstation, then the installation program will install the ActiveX controls for Internet Explorer and the plug-ins for Netscape.

The Line Data applet lets users view SCS, SCS-extended, and line data documents that are stored in OnDemand. The Line Data applet displays line data documents in the browser window and adds a toolbar to the top of the display window. The Line Data applet toolbar provides controls that can help users work with documents. An administrator enables the use of the Line Data applet by configuring the ARSWWW.INI file.

The AFP2HTML applet lets users view the output generated by the IBM AFP2WEB Transform service offering. The AFP2WEB Transform converts AFP documents and resources into HTML documents. After installing and configuring the AFP2WEB Transform, an administrator enables the use of the AFP2HTML applet by configuring the ARSWWW.INI file. The AFP2HTML applet provides a toolbar with controls that can help users work with documents, including controls for large objects.

One advantage of the applets is that your users never have to install or upgrade software on the workstation to use them, unlike the Web viewers, which must be installed on the workstation. Also, if IBM provides a new version of a Web Viewer, then you must distribute the updated Web Viewer to your users.

When using the applets and viewers that are provided by IBM, the documents that are retrieved from an OnDemand server remain compressed until reaching the client. The client uncompresses the documents and displays the pages in a Web browser window. If a document was stored in OnDemand as a large object, then

the client retrieves and uncompresses segments of the document, as needed, when the user moves through pages of the document.

Using ODWEK

The most common method of using ODWEK is by customizing the sample HTML applications provided with the product. The LOGON.HTM sample application supports users that are permitted access to several folders. You first modify the LOGON.HTM page with information about your OnDemand server. You then publish the URL of the LOGON.HTM file. Your users can then link to the URL and log on to the specified server. ODWEK automatically displays a series of Web pages for users to search for, retrieve, and display OnDemand documents. The CREDIT.HTM sample application supports casual use of OnDemand by providing a Web page that contains search criteria for a specific folder. After you customize the sample, the user links to the URL, completes the search criteria, and presses the Submit button. ODWEK displays a Web page that lists the documents that match the query.

Important: ODWEK requires the ability to write cookie data on the client. Make sure that your users configure their browsers to accept cookies.

Most customers define one OnDemand userid to access a server with ODWEK. This is common in environments with many casual users of OnDemand who will be accessing the same folder. You can also provide each user with their own OnDemand userid. Regardless of how you decide to access OnDemand with ODWEK, you must manage the userids in OnDemand: you must add them to the server and set application group and folder permissions for the users.

Product functions

The following OnDemand functions are supported by ODWEK. You typically invoke the functions by creating Web pages that contain links to the ODWEK server program. Each link invokes a specific function. The output of one function is another Web page with links that lead the user to the next logical function. For example, the initial Web page may invoke the Logon function. The Logon function generates a Web page with a link to the Search Criteria function. Each function can be called with an Application Programming Interface (API). See Appendix C, “API reference” on page 49 for details.

Add Annotation

The Add Annotation function enables users to add an annotation to the specified document. To add an annotation, the user must be given the Annotation Add permission for each application group that contains documents to be annotated. (The Application Group Access permission lets users add annotations.)

Change Password

The Change Password function allows users to change their OnDemand passwords.

Document Hit List

The Document Hit List function builds the list of items that match the search criteria. The list is presented in an HTML table. Each item that matches the search is stored in a table cell and contains a link to the Retrieve Document function.

Logoff

The Logoff function allows users to log off an OnDemand server.

Logon

The Logon function allows the users to logon to an OnDemand server. If the Logon function is successful, the user is presented with a Web page that contains the list of folders that the user is authorized to open.

Retrieve Document

The Retrieve Document function retrieves a document from OnDemand. The data stream returned from the server includes the document, and depending on the data type, the resources required to view the document. The data stream must not be modified in any way. The browser, along with the viewer, interpret and decode the data stream and display the document. If the document is stored in OnDemand as a large object, then only the first segment of the document is returned. Subsequent segments of the document are retrieved and displayed as needed.

Search Criteria

After a successful logon, the user is presented with the list of folders that the user is authorized to open. The user selects a folder to open. Upon opening a folder, a Web page is displayed that contains the search fields for the folder. The user can accept the default search criteria or enter search criteria to search for specific documents. When the user presses the Submit button, the search request is sent to the OnDemand server.

Server Print Document

The Server Print Document function sends copies of documents to an OnDemand server printer. To use server print, the user must be given the Document Print permission for each application group that contains documents that the user needs to print. (The Application Group Access permission lets users print documents.) At least one server printer must be defined on the OnDemand server.

Update Document

The Update Document function allows users to update the database. The Update Document function updates one or more database fields for a specific document.

View Annotations

The View Annotations function enables users to view the annotations attached to the specified document. To view annotations, the user must be given the Annotation View permission for each application group that contains annotations that the user needs to view. (The Application Group Access permission lets users view annotations.)

Server and data security

There are two levels of security that you need to consider before you use ODWEK:

- Who can access the ODWEK programs and the Web pages
- Who can access data on the OnDemand server

Any user that can access your Web server and the programs and Web pages that comprise the front-end to ODWEK can potentially access data stored in OnDemand. IBM strongly encourages you to limit access to the programs and Web

pages. There are many ways that you can limit access to programs and Web pages on your Web server. For example, many Web servers provide a system of security to sensitive Web pages by allowing you to restrict access to directories. You can also use a password file on the Web server, that requires users to enter a userid and password before accessing the Web pages. However, even though Web server userids and passwords are similar to operating system userids and passwords, there is no correspondence between them and operating system userids and passwords. There is also no correspondence between Web server userids and passwords and OnDemand userids and passwords.

ODWEK provides access to OnDemand servers and data using standard OnDemand APIs. The APIs verify that the OnDemand userid can access the server and the requested data. Someone in your organization must administer user and data security on the OnDemand server.

There's one other security-related detail that you might want to consider: the method used to transfer form parameters and values between the client and the server. The forms provided with ODWEK use the POST method to transfer parameters and values within the body of the HTTP request. With the POST method, the parameters and values do not appear in the Location field of the browser. For example, a typical function call appears as follows:

```
http://www.company.com/cgi-bin/arswww.cgi
```

However, if you do not specify a method when you create a form, then the default method is GET, which transfers parameters and values within the URL itself. With the GET method, a typical function call appears as follows:

```
http://www.company.com/cgi-bin/arswww.cgi?_function=logon  
&_user=bob&_password=secret
```

The parameters and values appear as clear text in the Location field of the browser window. If you create your own forms, IBM strongly encourages you to use the POST method. To change the default method from GET to POST, you must code the METHOD attribute on the form tag.

Note: If you must use the GET method, then you can encrypt the parameters and values by specifying the ENCRYPTURL parameter in the ARSWWW.INI file. See "ENCRYPTURL" on page 29 for more information.

Chapter 2. Installing and configuring the Web server

This section defines the installation requirements and explains how to install the ODWEK software on the Web server and modify the ODWEK configuration file.

You must install the ODWEK software on an iSeries system that is running the current version of the IBM HTTP Server. In addition, if you plan to use the Java servlet, then make sure that you have the current version of the iSeries Web Application Server (WebSphere) up and running.

ODWEK can search for and retrieve documents from OnDemand servers that are running IBM Content Manager OnDemand for iSeriesVersion 5 Release 1 Common Server.

Installation requirements

ODWEK requires:

- The current version of the IBM HTTP Server. In addition, if you plan to use the Java servlet, then make sure that you have the current version of the iSeries Web Application Server (WebSphere) up and running. The servers must run under OS/400 V5R1.
- Appropriate media type for installation.
- Adequate disk space for installation files: approximately 30 MB on the Web server
- Adequate disk space for cache storage: by default, 10 MB on the Web server. See "CACHESIZE" on page 13 for more information.

Other requirements

ODWEK can *cache* (temporarily store) documents on the Web server. This can increase the speed with which previously viewed documents can be sent to users. To enable cache storage for documents, configure the CACHEDOCS parameter in the ARSWWW.INI file. See "CACHEDOCS" on page 12 for details.

By default, ODWEK caches data in the /QIBM/UserData/OnDemand/WWW/CACHE directory. You can specify a different cache directory by modifying the ARSWWW.INI file. See "CACHEDIR" on page 11 for details.

Make sure that the processes that run ODWEK programs can read from the directory that contains the programs and can write to the cache directory. When ODWEK is installed, all of the objects are secured by authorization list QONDADM and user profiles QTMHHTTP, QTMHHTTP1 and QEJBSVR are added to the authorization list with *CHANGE authority.

If you plan to use the AFP2HTML applet, then you must obtain the AFP2WEB Transform service offering from IBM and install and configure it on the Web server. See your IBM representative for more information about the AFP2WEB Transform service offering. You must also provide configuration options for the AFP documents and resources that you plan to process with the AFP2WEB Transform. See Appendix A, "AFP to HTML transform" on page 43 for more information about the configuration file.

If you plan to convert AFP documents stored in OnDemand to PDF documents that can be viewed with the Adobe Acrobat viewer, then you must obtain the AFP2PDF Transform service offering from IBM and install and configure it on the Web server. See your IBM representative for more information about the AFP2WEB Transform service offering. You must also provide configuration options for the AFP documents and resources that you plan to process with the AFP2PDF Transform. See Appendix B, “AFP to PDF transform” on page 47 for more information about the configuration file. To view converted documents, you must obtain the Adobe Acrobat viewer for the browsers used by your organization.

Installing on OS/400

Setting up ODWEK typically requires that you do the following:

1. Obtain a copy of the latest OnDemand README file. Print and then read the entire file before you begin.
2. To install ODWEK, follow the instructions in the book named Software Installation (SC41-5120). The licensed program number is 5722RD1 and the feature is 11.

Note: The recommended way to install ODWEK is to use the Install licensed programs menu option from the Work with Licensed Programs menu (go licpgm). From the Install licensed programs screen, enter a 1 to Add an option, enter 5722RD1 for the Licensed Program and 11 for the Product Option or scroll through the list of Licensed Programs and Product Options until you find ODWEK and enter a 1 before it. **If you install OnDemand with any other method, errors can occur when you attempt to use it.**

3. IBM recommends that you order, load, and apply all PTFs available for OnDemand after successful installation of the licensed program. Refer to Informational APAR II12715 for a complete list of OnDemand Version 5 Release 1 PTFs. The informational APAR can be ordered electronically using the SNDPTFORD command, specifying II12715 for the PTF number. Be sure to read the PTF cover letters and follow any special instructions.

Your next step

Make sure that you have the current version of the IBM HTTP server up and running on the iSeries system. You will need to configure the HTTP server. See Appendix E, “HTTP server configuration files” on page 79 for an example of an HTTP server configuration file.

If you plan to use the Java servlet, make sure that you have the current version of the iSeries Web Application Server (WebSphere) up and running. You will need to configure WebSphere. For instructions, see the IBM WebSphere Application Server for AS/400® Documentation Center on the Web at <http://www.ibm.com/servers/eserver/iseries/software/websphere/wsappserver/docs/as400v35std/docs/>. Follow the links to Installation and Initial Configuration.

After you have installed the ODWEK software, configured the HTTP server, and (optionally) configured WebSphere, you can now configure the ODWEK initialization file for your operating environment. See “Specifying the ARSWWW.INI file” on page 9.

Specifying the ARSWWW.INI file

The ARSWWW.INI file is an ASCII text file that contains parameters that are read by ODWEK programs (such as the CGI program or the Java servlet). You specify each parameter on a separate line using the following format: `PARAMETER=value`. For example:

```
AFPCVIEWING=plugin
CACHEDIR=/tmp/cache
LANGUAGE=ENU
```

The parameters in the ARSWWW.INI file are grouped into sections. You specify the beginning of a section using a section header, in the following format: `[sectionHeader]`. You specify the parameters for a section after the section header. For example:

```
[@SRV@_gunnar]
HOST=gunnar
PORT=1446
PROTOCOL=4
```

An example ARSWWW.INI configuration file is provided with the product. The example configuration file provides a set of the most commonly used values. “Example ARSWWW.INI file” on page 33 shows the example.

The sections and parameters for the ARSWWW.INI file are as follows:

[@SRV@_DEFAULT]

The default server section. You can use the default server section to specify parameters that are common to the OnDemand servers with which ODWEK will communicate. The parameters and values that you specify in this section will be used unless you specify them in a server section.

This section has a global scope for all servers, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

PORT

The TCP/IP port number that OnDemand servers use to communicate with ODWEK. If you do not specify the PORT parameter, then the server uses the port number that is specified for OnDemand in the Service Table (WRKSRVTBLE). If you do not specify the PORT parameter and OnDemand is not listed in the Service Table, then the servers will attempt to use port number 1445. To specify that the servers use the port number that is specified for OnDemand in the Service Table, specify 0 (zero).

You can specify this parameter once in the default section. When using the Logon API, you can override the specified port number with the `_port` parameter.

This parameter is optional.

Example:

```
[@SRV@_DEFAULT]
PORT=0
```

PROTOCOL

The networking protocol that OnDemand servers use to communicate with ODWEK. You must specify 0 (zero) for TCP/IP.

You must specify this parameter once in the default section.

This parameter is optional. If you do not specify this parameter, a value of 0 (zero) is used.

Example:

```
[@SRV@_DEFAULT]  
PROTOCOL=0
```

[@SRV@_server]

A server section. You must specify one server section for each OnDemand server with which ODWEK will communicate. A server section contains the parameters and values for a specific server. The section header must include the string that identifies the server. The parameters specified in a server section override the parameters found in the default server section.

You must specify one server section for each server.

This section is required.

This section can contain the following parameters:

HOST

The name of the OnDemand server. You can specify the TCP/IP address, host name alias, or fully-qualified host name of the server.

You must specify this parameter once in the server section.

This parameter is required.

Example:

```
[@SRV@_gunnar]  
HOST=gunnar
```

PORT

The TCP/IP port number that the OnDemand server uses to communicate with ODWEK. If you do not specify the PORT parameter, then the server uses the port number that is specified (or defaulted to) in the default server section.

You can specify this parameter once in the server section. When using the Logon API, you can override the specified port number with the `_port` parameter.

This parameter is optional.

Example:

```
[@SRV@_gunnar]  
PORT=0
```

PROTOCOL

The networking protocol that the OnDemand server uses to communicate with ODWEK. You must specify 0 (zero) for TCP/IP.

You can specify this parameter once in the server section.

This parameter is optional. If not specified, the value specified (or defaulted to) in the default server section is used.

Example:

```
[@SRV@_gunnar]
PROTOCOL=0
```

[CONFIGURATION]

The CONFIGURATION section contains parameters that are used by ODWEK on the Web server.

This section has a global scope, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

APPLETDIR

Identifies the directory that contains the Line Data and AFP2HTML applets.

Notes:

1. You can specify a directory name or a *pass rule*:
 - If you specify a directory name, the directory must be relative to the /QIBM/UserData/OnDemand/WWW directory. For example, if you specify appletdir=applets, then the applets must exist in the /QIBM/UserData/OnDemand/WWW/APPLETS directory.
 - If you specify a pass rule, then it must be defined in the Web server configuration file. For example, if you specify appletdir=/applets/, then the Web server configuration file must have a pass rule for /applets/. The replacement file path of the pass rule must be set to the full path name of the directory on the server. For example:

```
Pass      /applets/*      /QIBM/UserData/OnDemand/WWW/APPLETS/*
```
2. Verify the permissions of the directory that you specify. The processes that run ODWEK programs must read the applet directory.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is required.

Example:

```
[CONFIGURATION]
APPLETDIR=applets
```

CACHEDIR

Use to specify the directory on the Web server in which ODWEK temporarily stores (*caches*) documents (see “CACHEDOCS” on page 12). By default, ODWEK caches documents in the /QIBM/UserData/OnDemand/WWW/CACHE directory.

Note: Verify the permissions of the directory that you specify. The processes that run ODWEK programs must write to and read from the cache storage directory.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional.

Example:

```
[CONFIGURATION]
CACHEDIR=/QIBM/UserData/OnDemand/WWW/CACHE
```

CACHEDOCS

Determines whether ODWEK temporarily stores (*caches*) documents on the Web server. Cache storage can increase the speed with which previously viewed documents are retrieved from the server. The default value is 0 (zero), which means that cache storage for documents is not enabled. Specify a 1 (one) to enable cache storage for documents. If you enable cache storage for documents, verify the directory in which ODWEK caches documents (see “CACHEDIR” on page 11) and the amount of disk space reserved for cache storage (see “CACHESIZE” on page 13).

Note: IBM recommends that you always enable cache storage for documents when you use the Microsoft® Internet Explorer browser and the AFP Web Viewer or the Image Web Viewer.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional. However, in general, most customers should always configure cache storage for documents.

Example:

```
[CONFIGURATION]
CACHEDOCS=1
```

CACHEMAXTHRESHOLD

Determines when ODWEK begins deleting data and documents from cache storage. ODWEK begins deleting data and documents when the percentage of disk space used in cache storage is equal to or greater than the value specified. The default value is 80 (eighty percent). ODWEK deletes the oldest items in cache storage until a threshold is reached (see “CACHEMINTHRESHOLD”).

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional.

Example:

```
[CONFIGURATION]
CACHEMAXTHRESHOLD=80
```

CACHEMINTHRESHOLD

Determines when ODWEK stops deleting data and documents from cache storage. ODWEK stops deleting data and documents when the percentage of disk space used in cache storage is less than or equal to the value specified. The default value is 40 (forty percent). ODWEK begins deleting the oldest items in cache storage when a threshold is reached (see “CACHEMAXTHRESHOLD”).

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional.

Example:

```
[CONFIGURATION]
CACHEMINTHRESHOLD=40
```

CACHESIZE

The amount of disk space that ODWEK can use to temporarily store (*cache*) data and documents on the Web server. Specify the value in megabytes. The default value is 10 (ten megabytes).

Note: To enable cache storage for documents, see “CACHEDOCS” on page 12.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional. However, when caching documents, the more disk space that you allocate, the more documents ODWEK can store on the Web server. Generally, this can increase the speed with which ODWEK sends previously viewed documents to users.

Example:

```
[CONFIGURATION]
CACHESIZE=1024
```

CACHEUSERIDS

Specifies a comma separated list of OnDemand userids for which ODWEK uses data from cache storage to complete the logon process. For the specified userids, multiple logon attempts will bypass the standard OnDemand logon processing, except if the data is not in cache storage or if the Inactivity Time Out value (see the system parameters on the OnDemand server) is reached. Separate each userid with the comma character.

Notes:

1. If the userid is case sensitive on the server (see the system parameters on the OnDemand server), then you must specify the userid exactly as it was defined to OnDemand.
2. The userids listed in the CACHEUSERIDS list can access only those folders whose names and other information are in cache storage. The users will not be able to access folders created after they log on to an OnDemand server. To allow a userid listed in the CACHEUSERIDS list to access a new folder, either delete the user's name from the CACHEUSERIDS list or purge the cache.
3. To specify that ODWEK should use data from cache storage for all OnDemand users, specify CACHEUSERIDS=*.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional.

Example:

```
[CONFIGURATION]
CACHEUSERIDS=user1,user2,user3
```


CODEPAGE

Identifies the code page of the OnDemand database. By default, ODWEK uses the code page of the Web server.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section. When using the Logon API, you can override the specified code page with the `_codepage` parameter.

This parameter is optional. However, if the Web server is running in a different code page than the database, then you must specify the CODEPAGE parameter.

Example:

```
[CONFIGURATION]
CODEPAGE=37
```

IMAGEDIR

Identifies the directory that contains image files used by ODWEK.

Notes:

1. ODWEK concatenates the value that you specify with the file names found on HTML image tags. For example, if you specify:

```
imagedir=pictures
```

Then the HTML image tag for the View Document function will appear in the output as follows:

```
<IMG SRC="pictures/odic_vd.gif">
```

2. You can specify a directory name or a *pass rule*:

- If you specify a directory name, then the directory must be relative to the /QIBM/UserData/OnDemand/WWW directory. For example, if you specify `imagedir=pictures`, then the images must exist in the /QIBM/UserData/OnDemand/WWW/PICTURES directory.
- If you specify a pass rule, then it must be defined in the Web server configuration file. For example, if you specify `imagedir=/pictures/`, then the Web server configuration file must have a pass rule for /pictures/. The pass rule must be set to the full path name of the directory on the server. For example:

```
Pass    /pictures/*    /QIBM/UserData/OnDemand/WWW/PICTURES/*
```

3. Verify the permissions of the directory that you specify. The processes that run ODWEK programs must read the image directory.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is required.

Example:

```
[CONFIGURATION]
IMAGEDIR=pictures
```

LANGUAGE

Identifies the language in which ODWEK displays messages. The default language is English (ENU). ODWEK supports the following languages:

Value	Country or Region
ARA	Egypt

Value	Country or Region
CHS	China
CHT	Taiwan
DAN	Denmark
DEU	Germany
ENU	U.S.A. / English
ESP	Spain
FIN	Finland
FRA	France
FRC	Canada
ITA	Italy
JPN	Japan
KOR	Korea
NLD	Netherlands
NOR	Norway
PTB	Brazil
SVE	Sweden

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional.

Example:

```
[CONFIGURATION]
LANGUAGE=JPN
```

TEMPDIR

Use to specify the directory in which ODWEK will store temporary files.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional. If you do not specify the TEMPDIR parameter, ODWEK will store temporary files in the run-time directory. If you are using the CGI program, the run-time directory is the directory in which the CGI program was installed. If you are using the servlet, the run-time directory is the directory that contains the servlet: for some installations, the run time directory is the location of the java.exe file; for others, the run time directory is the servlets directory, however, the exact location is dependent on the Java application server.

Example:

```
[CONFIGURATION]
TEMPDIR=/QIBM/UserData/OnDemand/WWW/TMP
```

Note: Verify the permissions of the directory that you specify. The processes that run ODWEK programs must write to and read from the temporary directory.

TEMPLATEDIR

Identifies the directory that contains the HTML template files. ODWEK uses the template files to generate Web pages in response to the various product functions (such as Logon, Search, Retrieve Document, and so forth). By default, ODWEK retrieves the template files from the /QIBM/UserData/OnDemand/WWW/SAMPLES directory.

Note: Verify the permissions of the directory that you specify. The processes that run ODWEK programs must read the template directory.

This parameter has a global scope, and you specify it only once in the CONFIGURATION section.

This parameter is optional.

Example:

```
[CONFIGURATION]
TEMPLATEDIR=/QIBM/UserData/OnDemand/WWW/SAMPLES
```

[SECURITY]

The SECURITY section contains the security parameters that are used by ODWEK on the Web server.

This section has a global scope, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

REPORTSERVERTIMEOUT

Use to specify that ODWEK should use the Inactivity Time Out parameter from the OnDemand server. The Inactivity Time Out parameter determines when a server can terminate a session with an inactive user. To specify that ODWEK should use the Inactivity Time Out parameter, set the REPORTSERVERTIMEOUT parameter to 1 (one).

This parameter has a global scope, and you specify it only once in the SECURITY section.

This parameter is optional. If you do not specify the REPORTSERVERTIMEOUT parameter, then ODWEK will not use the Inactivity Time Out parameter, meaning that ODWEK will not terminate a session with an inactive user. For more information about the Inactivity Time Out parameter, see the online help for the administrative client.

Example:

```
[SECURITY]
REPORTSERVERTIMEOUT=1
```

SERVERACCESS

Specifies a comma separated list of the OnDemand servers that ODWEK can access. If you specify the SERVERACCESS parameter, then the clients that use ODWEK and the programs that use the APIs are permitted to access only those servers that you specify. You can specify the TCP/IP address, host name alias, or fully qualified host name of the server.

This parameter has a global scope, and you specify it only once in the SECURITY section.

This parameter is optional.

Example:

```
[SECURITY]
SERVERACCESS=dave,gunnar
```

[AFP2HTML]

The AFP2HTML section contains the parameters that are used by the AFP2WEB Transform. The AFP2WEB Transform converts AFP documents and resources into HTML documents that can be displayed with the AFP2HTML applet.

Notes:

1. To convert AFP documents to HTML documents, an administrator must obtain the AFP2WEB Transform service offering from IBM and install and configure it on the server. See your IBM representative for more information about the AFP2WEB Transform service offering. Someone in your organization must also provide configuration options for the AFP2WEB Transform. See Appendix A, “AFP to HTML transform” on page 43 for more information about the configuration file.
2. To convert documents with the AFP2WEB Transform, you must specify the AFPVIEWING=HTML parameter in the DEFAULT BROWSER section (or other browser sections). See “AFPVIEWING” on page 27 for details. (If you plan to use the Retrieve Document API, then you should specify the _afp=HTML parameter. See “Retrieve Document” on page 63 for details.)
3. By default, ODWEK uses the AFP2HTML applet to view converted documents. If a converted document was stored in OnDemand as a large object, then the AFP2HTML applet provides controls to help users easily move to any page in the document.

This section has a global scope, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

CONFIGFILE

The configuration file that contains the options used by the AFP2WEB Transform to convert AFP documents and resources into HTML data, fonts, and images that can be viewed with the AFP2HTML applet. Appendix A, “AFP to HTML transform” on page 43 shows the sample configuration file provided with OnDemand. See the AFP2WEB Transform documentation for details about the options that you can specify in the configuration file.

This parameter has a global scope, and you specify it only once in the AFP2HTML section.

This parameter is optional.

Example:

```
[AFP2HTML]
CONFIGFILE=afp2html.ini
```

INSTALLDIR

The directory that contains the AFP2WEB Transform programs, configuration files, and mapping files. Specify the full path name of the directory on the Web server.

Note: Verify the permissions of the directory that you specify. The processes that run ODWEK programs must read the install directory.

This parameter has a global scope, and you specify it only once in the AFP2HTML section.

This parameter is optional.

Example:

```
[AFP2HTML]
INSTALLDIR=/QIBM/UserData/OnDemand/www/bin
```

USEEXECUTABLE

Determines whether ODWEK starts the AFP2WEB Transform by using the shared library (DLL) or the executable (EXE).

Important: ODWEK on the iSeries must use the executable. Therefore, this parameter must always be set to 1 (one).

This parameter has a global scope, and you specify it only once in the AFP2HTML section.

This parameter is optional.

Example:

```
[AFP2HTML]
USEEXECUTABLE=1
```

[AFP2PDF]

The AFP2PDF section contains the parameters that are used by the IBM AFP2PDF Transform. The AFP2PDF Transform converts AFP documents and resources into PDF documents that can be viewed with the Adobe Acrobat viewer.

Notes:

1. To convert AFP documents to PDF documents, an administrator must obtain the AFP2PDF Transform service offering from IBM and install and configure it on the Web server. See your IBM representative for more information about the AFP2PDF Transform service offering. Someone in your organization must also provide configuration options for the AFP2PDF Transform. See Appendix B, "AFP to PDF transform" on page 47 for more information about the configuration file.
2. To convert documents with the AFP2PDF Transform, you must specify the AFPVIEWING=PDF parameter in the DEFAULT BROWSER (or other browser sections). See "AFPVIEWING" on page 27 for details. (If you plan to use the Retrieve Document API, then you should specify the _afp=PDF parameter. See "Retrieve Document" on page 63 for details.)
3. By default, ODWEK uses the Adobe Acrobat viewer to view converted documents. You must obtain the viewer for the browsers used in your organization.

This section has a global scope, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

CONFIGFILE

The configuration file that contains the options used by the AFP2PDF Transform to convert AFP documents and resources into PDF documents that can be viewed with the Adobe Acrobat viewer. Appendix B, “AFP to PDF transform” on page 47 shows the sample configuration file provided with OnDemand. See the AFP2PDF Transform documentation for details about the options that you can specify in the configuration file.

This parameter has a global scope, and you specify it only once in the AFP2PDF section.

This parameter is optional.

Example:

```
[AFP2PDF]
CONFIGFILE=afp2pdf.ini
```

INSTALLDIR

The directory that contains the AFP2PDF Transform programs, configuration files, and mapping files. Specify the full path name of the directory on the Web server.

Note: Verify the permissions of the directory that you specify. The processes that run ODWEK programs must read the install directory.

This parameter has a global scope, and you specify it only once in the AFP2PDF section.

This parameter is optional.

Example:

```
[AFP2PDF]
INSTALLDIR=/QIBM/UserData/OnDemand/www/bin
```

USEEXECUTABLE

Determines whether ODWEK starts the AFP2WEB Transform by using the shared library (DLL) or the executable (EXE).

Important: ODWEK on the iSeries must use the executable. Therefore, this parameter must always be set to 1 (one).

This parameter has a global scope, and you specify it only once in the AFP2PDF section.

This parameter is optional.

Example:

```
[AFP2PDF]
USEEXECUTABLE=1
```

[MIMETYPES]

The MIMETYPES section identifies the Multipurpose Internet Mail Extension (MIME) content type for documents that will be retrieved from the OnDemand server. The browser uses the MIME content type to format and display the document, to choose the correct applet or viewer to open the document, or to start a user-defined program to open the document.

Notes:

1. The MIMETYPES section should contain a `parameter=value` pair for each type of document that you plan to retrieve from the OnDemand server. The parameter identifies the data type of the document in OnDemand. (This is the data type that is assigned to the OnDemand application on the View Information page.) The *value* determines the program that is started to open the document. The *value* is case sensitive.
2. In the example ARSWWW.INI file (see "Example ARSWWW.INI file" on page 33), the MIMETYPES section contains a parameter for each of the standard data types supported by OnDemand (AFP, BMP, EMAIL, GIF, JFIF, LINE, PCX, PDF, and TIFF).
3. In addition to the standard data types, OnDemand also supports user-defined data types. A user-defined data type can identify any other type of data that you want to store on the system. Before users can view documents that have a user-defined data type, you must add a parameter to the MIMETYPE section. The parameter must identify the MIME content type of the data and the file extension that was specified for the OnDemand application on the View Information page. The file extension must also be registered with the operating system on the client. For example, suppose you define an application to store Lotus® WordPro documents in OnDemand. You specify the file extension as LWP on the application View Information page. To configure the system to recognize documents retrieved from the application, add the following parameter to ARSWWW.INI file:

```
[MIMETYPES]
LWP=application/vnd.lotus-wordpro
```

Then, when a user retrieves a document from the application, ODWEK sets the MIME content type to `application/vnd.lotus-wordpro` and the system starts Lotus WordPro to open the document. For Netscape, the MIME content type must be defined in Preferences->Navigator->Applications.

Table 1 lists the MIME content types for several PC applications:

Table 1. MIME content types for several PC applications

Lotus Applications	WK1=application/vnd.lotus-1-2-3 WK3=application/vnd.lotus-1-2-3 WK4=application/vnd.lotus-1-2-3 123=application/vnd.lotus-1-2-3 APR=application/vnd.lotus-approach VEW=application/vnd.lotus-approach LWP=application/vnd.lotus-wordpro SAM=application/vnd.lotus-wordpro MWP=application/vnd.lotus-wordpro SMM=application/vnd.lotus-wordpro PRE=application/vnd.lotus-freelance PRZ=application/vnd.lotus-freelance
--------------------	--

Table 1. MIME content types for several PC applications (continued)

Microsoft Applications	DOC=application/msword XLS=application/vnd.ms-excel PPS=application/vnd.ms-powerpoint PPT=application/vnd.ms-powerpoint MPD=application/vnd.ms-project MPP=application/vnd.ms-project MPT=application/vnd.ms-project MPD=application/vnd.ms-project
HTML Applications	HTML=application/html HTM=application/htm

This section has a global scope, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

AFP

The MIME content type for AFP documents, when AFPVIEWING=NATIVE is specified in the [DEFAULT BROWSER] section. See “AFPVIEWING” on page 27 for more information. This specifies the MIME type for the document that the browser then uses to determine what program should be used process the document.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional.

Example:

```
[MIMETYPES]
AFP=application/afp
```

BMP

The MIME content type for BMP documents. By default, BMP documents are displayed using the Image Web Viewer.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional. However, if you do not specify this parameter, then ODWEK sets the MIME content type to image/bmp and starts the program that is associated with the BMP file type on the client operating system.

Example:

```
[MIMETYPES]
BMP=image/IBM-OnDemand
```

GIF

The MIME content type for GIF documents. By default, GIF documents are displayed using the Image Web Viewer.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional. However, if you do not specify this parameter, then ODWEK sets the MIME content type to image/gif and uses the browser's built-in viewer to display GIF documents.

Example:

```
[MIMETYPES]
GIF=image/IBM-OnDemand
```

EMAIL

The MIME content type for EMAIL documents. See “EMAILVIEWING” on page 28 for more information about processing EMAIL documents before sending them to the client.

Notes:

1. If you convert EMAIL documents to HTML, ODWEK sets the MIME content type to text/html. ODWEK ignores the value of the EMAIL parameter, if specified.
2. If you extract and uncompress EMAIL documents from OnDemand, ODWEK uses the value of the EMAIL parameter to determine the program to open the document.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional.

Example:

```
[MIMETYPES]
EMAIL=text/plain
```

JFIF

The MIME content type for JFIF (JPEG) documents. By default, JFIF documents are displayed using the Image Web Viewer.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional. However, if you do not specify this parameter, then ODWEK sets the MIME content type to image/jpeg and starts the program that is associated with the JPEG file type on the client operating system.

Example:

```
[MIMETYPES]
JFIF=image/IBM-OnDemand
```

LINE

The MIME content type for line data documents. See “LINEVIEWING” on page 29 for more information about processing line data documents before sending them to the client.

This is used when LINEVIEWING=NATIVE is specified in the [DEFAULT BROWSER] section. If you extract and uncompress line data documents from OnDemand, ODWEK uses the value of the LINE parameter to determine the program to start to open the document.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional.

Example:

```
[MIMETYPES]
LINE=text/html
```

PCX

The MIME content type for PCX documents. By default, PCX documents are displayed using the Image Web Viewer.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional. However, if you do not specify this parameter, then ODWEK sets the MIME content type to image/pcx and starts the program that is associated with the PCX file type on the client operating system.

Example:

```
[MIMETYPES]
PCX=image/IBM-OnDemand
```

PDF

The MIME content type for PDF documents.

Notes:

1. ODWEK uses the value of the PDF parameter to determine the program to start to open PDF documents. By default, PDF documents are opened with the Adobe Acrobat viewer.
2. To view PDF documents, you should obtain and install the Adobe Acrobat viewer for the browsers used by your organization.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional.

Example:

```
[MIMETYPES]
PDF=application/pdf
```

TIFF

The MIME content type for TIFF documents. By default, TIFF documents are displayed using the Image Web Viewer.

This parameter has a global scope, and you specify it only once in the MIMETYPES section.

This parameter is optional. However, if you do not specify this parameter, then ODWEK sets the MIME content type to image/tiff and starts the program that is associated with the TIFF file type on the client operating system.

Example:

```
[MIMETYPES]
TIFF=image/IBM-OnDemand
```

[ATTACHMENT IMAGES]

The ATTACHMENT IMAGES section identifies the image files that ODWEK uses to display attachments to a document. Each image file should contain an icon that represents a specific type of attachment. For example, you can identify an image file that contains an icon for a text attachment, a bitmap attachment, and so forth.

Notes:

1. Each parameter that you specify must identify the file type that the operating system associates with the type of attachment. The file type determines the program that the operating system starts to process the attachment. For example, if the operating system associates the file type TXT with text file attachments, add a `TXT=value` parameter to the ATTACHMENT IMAGES section. As the *value*, specify the name of the file that contains the icon that you want to use to indicate a text attachment to a document. When the user clicks on the icon, the operating system starts the program that is registered to open TXT documents.
2. By default, all attachments to a document are indicated by the `odic_att.gif` file (which is located in the directory that is specified by the `IMAGEDIR` parameter in the CONFIGURATION section). OnDemand also uses the `odic_att.gif` file for any file types for which a parameter is not specified in the ATTACHMENT IMAGES section.

This section has a global scope, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

BMP

The parameter identifies the bitmap data type. The value identifies the file that contains the icon to represent a bitmap image attached to the document.

This parameter has a global scope, and you specify it only once in the ATTACHMENT IMAGES section.

This parameter is optional.

Example:

```
[ATTACHMENT IMAGES]
BMP=userBitMap.gif
```

GIF

The parameter identifies the GIF data type. The value identifies the file that contains the icon to represent a GIF image attached to the document.

This parameter has a global scope, and you specify it only once in the ATTACHMENT IMAGES section.

This parameter is optional.

Example:

```
[ATTACHMENT IMAGES]
GIF=userGIF.gif
```

TXT

The parameter identifies the TXT data type. The value identifies the file that contains the icon to represent a text file attached to the document.

This parameter has a global scope, and you specify it only once in the ATTACHMENT IMAGES section.

This parameter is optional.

Example:

```
[ATTACHMENT IMAGES]
TXT=userText.gif
```

[NO HTML]

The NO HTML section contains the parameters that are used to override the default characters that delimit strings and separate a list of values in the delimited ASCII output. A function generates delimited ASCII output when you set its `_nohtml` parameter to 1 (one). See Appendix G, “No HTML output” on page 83 for details about the delimited ASCII output.

This section has a global scope, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

BEGIN

The character that ODWEK uses to delimit the beginning of a string or a string of values. You must change the BEGIN delimiter if a string contains the default character (the `[` character).

This parameter has a global scope, and you specify it only once in the NO HTML section.

This parameter is optional.

Example:

```
[NO HTML]
BEGIN=<
```

END

The character that ODWEK uses to delimit the end of a string or a string of values. You must change the END delimiter if a string contains the default character (the `]` character).

This parameter has a global scope, and you specify it only once in the NO HTML section.

This parameter is optional.

Example:

```
[NO HTML]
END=>
```

SEPARATOR

The character that ODWEK uses to separate a string of values. You must change the SEPARATOR delimiter if a string contains the default character (the ^character).

This parameter has a global scope, and you specify it only once in the NO HTML section.

This parameter is optional.

Example:

```
[NO HTML]
SEPARATOR=;
```

[DEFAULT BROWSER]

You can use the DEFAULT BROWSER section to specify parameters for the browsers used by your organization. The parameters that you specify will be used unless you specify them in a browser section. (The parameters specified in a browser section override those from the DEFAULT BROWSER section.)

This section has a global scope for all browsers, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

ADDEXTENSION

Determines whether the three-character file extension of the document is added to the extra path information of the URL that is returned to the browser. Adding the file extension to the URL can help browsers determine the correct viewer to start for the document. The default value is 0 (zero) and means that the file extension is not added to the URL.

Note: If you use the Microsoft Internet Explorer browser, then IBM recommends that you specify ADDEXTENSION=1 so that the file extension is added to the URL.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
ADDEXTENSION=1
```

ADDFIELDSTODOCID

Determines whether the field values are added to the document identifiers. (The document identifiers are returned by the Document Hit List function.) The default value is 0 (zero) and means that the field values are not added to the document identifiers. If you enable ODWEK to add the field values to the document identifiers, then they will also appear in the system log, provided that you have configured the system to save application group messages in the system log.

Notes:

1. If you use the Update Document function, then you must specify ADDFIELDSTODOCID=1.
2. If the Annotation Flags in the document database table field is set to Yes, then you must specify ADDFIELDSTODOCID=1. You can set the Annotations Flags in document database table field on the Database Information dialog box, from the General page in the OnDemand application group definitions. (Click Advanced to open the Database Information dialog box.)

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
ADDFIELDSTODOCID=1
```

ADDNOTES

Determines whether annotations can be added to documents. If enabled, ODWEK puts a control for adding annotations next to each document in the document list. The default value is 0 (zero) and means that annotations cannot be added to documents.

Note: Users are permitted or denied the ability to add annotations to documents based on the Annotation permissions in the OnDemand application group.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
ADDNOTES=1
```

AFPVIEWING

When a user retrieves an AFP document from the OnDemand server, the value of this parameter determines what action, if any, ODWEK takes before sending the document to the client. For example, some customers convert AFP documents to HTML with the AFP2WEB Transform and use the AFP2HTML applet to view the HTML output. Those customers should specify AFPVIEWING=HTML so that ODWEK will convert the AFP document before sending it to the client.

You can set the parameter to one of the following values:

ASCII	ODWEK converts AFP documents to ASCII text.
HTML	ODWEK converts AFP documents to HTML documents with the AFP2WEB Transform.
NATIVE	ODWEK extracts and uncompresses AFP documents and their resources from OnDemand.

Note: If you specify AFPVIEWING=NATIVE, verify that the MIME content type for AFP documents identifies the viewer that you want to use. See "[MIMETYPES]" on page 20 for details.

PDF ODWEK converts AFP documents to PDF documents with the AFP2WEB Transform.

Note: If you specify AFPVIEWING=PDF, verify that the MIME content type for PDF documents identifies the viewer that you want to use. See “[MIMETYPES]” on page 20 for details.

PLUGIN ODWEK does not convert AFP documents (the default).

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section. When using the Retrieve Document function, you can override the specified action with the _afp parameter.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
AFPVIEWING=PLUGIN
```

AUTODOCRETRIEVAL

Specifies whether the client automatically displays a document when one and only one document matches the query. This capability means that, for queries that you know will match only one document, you can set up the system to bypass the document list Web page and display the document without the user taking action. The default value is 0 (zero) and means that ODWEK will display the document list Web page, even if only one document matches the query.

Important: Do not enable automatic document retrieval if you plan to use the Microsoft Internet Explorer browser. IBM suggests that you specify AUTODOCRETRIEVAL=0 in any browser sections that you define for Internet Explorer.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
AUTODOCRETRIEVAL=1
```

EMAILVIEWING

When a user retrieves an EMAIL document from the OnDemand server, the value of this parameter determines what action, if any, ODWEK takes before sending the document to the client.

You can set this parameter to one of the following values:

NATIVE ODWEK extracts and uncompresses EMAIL documents from OnDemand.

Note: If you specify EMAIL=NATIVE, verify that the MIME content type identifies the viewer that you want to use. See “[MIMETYPES]” on page 20 for details.

HTML ODWEK converts EMAIL documents to HTML documents. This is the default value.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section. When using the Retrieve Document function, you can override the specified action with the `_email` parameter.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
EMAILVIEWING=HTML
```

ENCRYPTCOOKIES

Determines whether ODWEK encrypts cookies that are sent to the browser. The default value is 0 (zero), meaning that cookies will not be encrypted. Specify 1 (one) to encrypt all cookies that are sent to the browser.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
ENCRYPTCOOKIES=1
```

ENCRYPTURL

Determines whether ODWEK encrypts the server, userid, password, and docid values that are contained in the URL that is sent to the browser. The default value is 0 (zero), meaning that these values will not be encrypted. Specify 1 (one) to encrypt these values.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional. However, if you must use the GET method to transfer form parameters and values between the browser and the Web server, then you can encrypt these values by specifying `ENCRYPTURL=1`. See “Server and data security” on page 4 for more information about the method attribute of the form tag.

Example:

```
[DEFAULT BROWSER]
ENCRYPTURL=1
```

LINEVIEWING

When a user retrieves a line data document from the OnDemand server, the value of this parameter determines what action, if any, ODWEK takes before sending the document to the client.

You can set this parameter to one of the following values:

APPLET	ODWEK converts line data documents for viewing with the Line Data applet (the default).
ASCII	ODWEK converts line data documents to ASCII text.
NATIVE	ODWEK extracts and uncompresses line data documents from OnDemand.

Note: If you specify LINEVIEWING=NATIVE, verify that the MIME content type identifies the viewer that you want to use. See “[MIMETYPES]” on page 20 for details.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section. When using the Retrieve Document function, you can override the specified action with the `_line` parameter.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
LINEVIEWING=APPLET
```

MAXHITS

The maximum number of items returned to the document list, regardless of the number of items that match the query.

Notes:

1. The document list is filled with items that match a query in the order in which the items were loaded into the database.
2. ODWEK uses the first value specified to determine the number of items to return to the document list:
 - a. For the Document Hit List function, the value of the Maximum Hits field (specified on the folder Permissions page). This value overrides all other values.
 - b. For the Document Hit List and Print Document functions, the value of the `_max_hits` parameter, if specified for a function. The value of the `_max_hits` parameter overrides the MAXHITS parameter.
 - c. The value of the MAXHITS parameter, if specified.
 - d. If none of the above are specified, ODWEK returns a maximum of 200 items to the document list.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
MAXHITS=200
```

NOLINKS

Determines whether the document list contains controls for viewing documents. If enabled, ODWEK adds a control next to each document. To view a document, the user must use the control. The default value is 0 (zero) and means that the user must use a text link to view a document.

Important: You must set NOLINKS=0 if you are using the Microsoft Internet Explorer browser. IBM suggests that you specify NOLINKS=0 in any browser sections that you define for Internet Explorer.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
NOLINKS=1
```

SERVERPRINT

Determines whether the document list contains controls for sending documents to a server printer. If enabled, ODWEK adds a control next to each document. The default value is 0 (zero) and means that users must open a document before they can send it to a server printer.

Notes:

1. To use server print, at least one server printer must be defined to the OnDemand server.
2. Users are permitted or denied the ability to print documents based on the Print permissions in the OnDemand application group.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
SERVERPRINT=1
```

SERVERPRINTERS

Use to specify the type of server print devices that the user can select. There are three types of server print devices:

- P Server Printer
- I Server Printer with Information
- F Server Fax

You can specify from zero to three types, in a comma-separated list.

The following example shows how to specify that the user can select server printer and server fax devices:

```
[DEFAULT BROWSER]
SERVERPRINTERS=P,F
```

SHOWDOCLOCATION

When generating delimited ASCII output rather than HTML (see Appendix G, “No HTML output” on page 83), determines whether the storage location of the document will appear in the output. See “Document Hit List” on page 85 for details. The default value is 0 (zero) and means that the storage location will not appear in the output.

Note: To display the storage location, you must also set the Display Document Location property in the OnDemand folder.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
SHOWDOCLOCATION=1
```

VIEWNOTES

Determines whether annotations to documents can be viewed. If enabled, ODWEK puts a control for viewing annotations next to each document in the document list. The default value is 0 (zero) and means that annotations cannot be viewed.

Note: Users are permitted or denied the ability to view annotations to documents based on the Annotation permissions in the OnDemand application group.

This parameter has a global scope, and you specify it only once in the DEFAULT BROWSER section.

This parameter is optional.

Example:

```
[DEFAULT BROWSER]
VIEWNOTES=1
```

[browser]

You can specify options for the specific browsers used by your organization. The parameters that you specify in a browser section override the parameters from the DEFAULT BROWSER section of the ARSWWW.INI file. (The parameters that you specify in the DEFAULT BROWSER section will be used unless you specify them in a browser section.)

Notes:

1. The section header must contain a string that identifies the browser for which you want to specify the options. ODWEK extracts the value of the HTTP_USER_AGENT environment variable to determine the browser being used. ODWEK then searches the ARSWWW.INI file for a browser section that matches the value. If no browser section is found, ODWEK then searches the ARSWWW.INI file for one of the following sections:

```
[browser version(major.minor)/platform]
```

```
[browser version(major.minor)]
```

```
[browser version(major)]
```

```
[browser]
```

```
[DEFAULT BROWSER]
```

ODWEK uses the options from the first section that matches the value.

2. For the browser, you can specify IE or Netscape.
3. For the platform, you can specify Win95, Win98, WinNT, or Unix.

A browser section has a global scope for the specified browser. Specify only one browser section for each browser. You should specify only the parameters that you need to override from the DEFAULT BROWSER section.

This section is optional.

This section can contain the same parameters that are defined for the default browser. See “[DEFAULT BROWSER]” on page 26.

Examples:

```
[IE 5]
AUTODOCRETRIEVAL=0
NOLINKS=0
```

```
[Netscape 4.6]
AUTODOCRETRIEVAL=1
NOLINKS=1
```

[DEBUG]

The DEBUG section contains options that you can use to help solve problems that you and others in your organization are having using ODWEK.

The DEBUG section has a global scope, and you specify it only once in the ARSWWW.INI file.

This section is optional.

This section can contain the following parameters:

LOG

Enables ODWEK to write messages and other program information to a log file. (The log file is named ARSWWW.LOG.)

This parameter has a global scope, and you specify it only once in the DEBUG section.

This parameter is optional. By default, ODWEK does not write messages to a log file. Specify a value of 1 (one) to log messages.

Example:

```
[DEBUG]
LOG=1
```

LOGDIR

Determines the directory in which ODWEK writes the ARSWWW.LOG file, if logging is enabled using the LOG parameter.

This parameter has a global scope, and you specify it only once in the DEBUG section.

This parameter is optional. By default, if logging is enabled, ODWEK writes the log file to the /QIBM/UserData/OnDemand/WWW/LOG directory.

Example:

```
[DEBUG]
LOGDIR=/QIBM/UserData/OnDemand/WWW/LOG
```

Example ARSWWW.INI file

An example ARSWWW.INI configuration file is provided with the product. The example configuration file sets the most commonly used default values for servers, browsers (Netscape Navigator), and viewers.

```

;;;;;;;;;;;;;;;;;;;;;;;;;
;;; Server Configuration   ;;;
;;;;;;;;;;;;;;;;;;;;;;;;;

[@SRV@_<host alias>];
HOST=<host name>;
PORT= ;
PROTOCOL= ;

[@SRV@_myiSeries.mycompany.com]
HOST=myiSeries.mycompany.com
PORT=1450
PROTOCOL=0

[CONFIGURATION]
CodePage=37
Language=ENU
TemplateDir=/QIBM/UserData/OnDemand/www/SAMPLES
ImageDir=/IMAGES/
AppletDir=/applets/
CacheDir=/QIBM/UserData/OnDemand/www/
CacheSize=0
CacheMinThreshold=0
CacheMaxThreshold=0
CacheDocs=0
CacheUserIDs=web,demo,mstephens

[SECURITY]
SERVERACCESS=

[AFP2HTML]
InstallDir=/QIBM/UserData/OnDemand/www/bin
ConfigFile=/QIBM/UserData/OnDemand/www/bin/afp2html.ini
UseExecutable=1

[AFP2PDF]
InstallDir=/QIBM/UserData/OnDemand/www/bin
ConfigFile=/QIBM/UserData/OnDemand/www/bin/afp2pdf.ini
UseExecutable=1

[MIMETYPES]
BMP=image/IBM_OnDemand
GIF=image/IBM_OnDemand
JFIF=image/IBM_OnDemand
PCX=image/IBM_OnDemand
TIFF=image/IBM_OnDemand
PNG=image/IBM_OnDemand
PDF=application/pdf
AFP=application/afp
LINE=application/line
EMAIL=text/html
META=application/unknown

[ATTACHMENT IMAGES]
TXT=userText.gif
BMP=userBitMap.gif
GIF=userGIF.gif

[NO HTML]
BEGIN=[
END=]
SEPARATOR=^

;;;;;;;;;;;;;;;;;;;;;;;;;
;;; Default Browser      ;;;
;;;;;;;;;;;;;;;;;;;;;;;;;

```

```

[DEFAULT_BROWSER]

;AfpViewing=[ascii,html,native,pdf,plugin,xenos]
AfpViewing=plugin
;LineViewing=[ascii,applet,native]
LineViewing=applet
;EmailViewing=[html,native]
EmailViewing=html
;MetaViewing=[xenos,native]
MetaViewing=native
NoLinks=1
ViewNotes=1
AddNotes=1
ServerPrint=1
ServerPrinters=P
AutoDocRetrieval=1
MaxHits=200
ShowDocLocation=1

[IE]
NoLinks=0
AddExtension=1
AddFieldsToDocid=0

[Mozilla/4.0 (compatible; MSIE 4.0; Windows 95)]
[Netscape 3.01]

[DEBUG]
;log=1
;logdir=/QIBM/UserData/OnDemand/www/logs

```

Your next step

After you have installed the ODWEK software and configured the ARSWWW.INI file, you should now configure the sample applications. See Chapter 3, “Configuring the sample applications” on page 37.

Chapter 3. Configuring the sample applications

This chapter explains how to customize the sample applications that are provided with ODWEK:

- LOGON.HTM. This application supports users that are permitted to access several folders. Each user is defined to the OnDemand server. After logging on to the server, ODWEK shows the user the list of folders that the user is permitted to open.
- CREDIT.HTM. This application supports casual use of OnDemand. The user is presented with search criteria for a specific folder. The OnDemand server name, userid and password, folder name, and folder fields are coded in the application. "CREDIT.HTM" contains instructions for customizing this application.
- FCREDIT.HTM. A version of the CREDIT application that demonstrates the use of HTML frames.

After you modify the sample applications, publish the URL of each file so that users can link to them and access OnDemand. Each sample requires a different level of customization. There are complete instructions for customizing one of the sample applications. Use the instructions as a guide for customizing other applications that you may need.

Note: In addition to modifying the sample applications, IBM recommends that you customize the TEMPLATE.HTM file for your organization. The TEMPLATE.HTM file contains user-defined content that ODWEK uses to display Web pages. See "TEMPLATE.HTM" on page 38 for important information about modifying this file.

CREDIT.HTM

Customize the CREDIT.HTM sample application by making a copy of the file for each folder that you want users to access. The name of the file should be the same as the name of the folder.

1. Edit the CREDIT.HTM file. (By default, this file is located in the /QIBM/UserData/OnDemand/WWW/SAMPLES directory.)
2. Change or delete the background image specified in the <body> statement (line 11).
3. Optionally change the background color specified in the <body> statement (line 11).
4. Change or delete the product image specified in the statement (line 12).
5. Replace the folder name specified in the <h1> statement (line 15).
6. Replace the text specified in the <p> statements (lines 17 through 25). Enter general instructions to the user.
7. Replace the CGI-BIN directory name specified in the <FORM> statement (line 29). Enter the name of the CGI-BIN directory that contains the ODWEK programs and files on the Web server.
8. Replace the value specified in the <input> statement (line 30). This is a comma separated string that contains the names of the folder display fields.
9. Replace the value specified in the <input> statement (line 31). This is the name of the folder.

10. Replace the value specified in the <input> statement (line 33). This is the maximum number of items displayed in the document list, regardless of the number of items that match the query.
11. Replace the server name specified in the <input> statement (line 35). This is the name of the OnDemand server with which ODWEK is to communicate. The supplied server name is gunnar.
12. If you want to sort items in the document list, verify the value specified in the <input> statement (line 36). Otherwise, delete line 36.
13. If you want to sort items in the document list, verify the value specified in the <input> statement (line 37). Otherwise, delete line 37.
14. Replace the value specified in the <input> statement (line 38). This is the OnDemand userid. The userid that you specify must have permission to open the folder and access application group data.
15. Optionally change the name of the template file specified in the <input> statement (line 39). OnDemand uses the template file to generate subsequent Web pages. The supplied template name is template.htm.
16. Modify lines 40 through 43 for the first folder search field.
 - a. Type a name for the folder field in the statement.
 - b. Replace the value specified in the name field of the <input> statement with the actual folder field name.
 - c. Replace the value specified in the value field of the <input> statement with the default search value.
17. Copy lines 40 through 43 and repeat step 16 for each additional folder search field.
18. Save your changes and close the text editor.

TEMPLATE.HTM

The TEMPLATE.HTM file is the default template file used by ODWEK to generate Web pages in response to the various product functions (such as Logon). You should replace this file with one that contains user-defined content. However, the template file must contain the following HTML comment line:

```
<!-- - - AOI# Marker - - -->
```

The location of comment line determines where ODWEK program places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.

By default, the template file is located in the directory named by the TEMPLATEDIR parameter in the ARSWWW.INI file. See "TEMPLATEDIR" on page 16 for details.

Your next step

After you have installed the ODWEK software, configured the ARSWWW.INI file, and configured the sample applications, you should now install the Web viewers on the user workstations. See Chapter 4, "Installing the Web viewers" on page 39.

Chapter 4. Installing the Web viewers

Overview

IBM provides viewers for the standard types of documents that can be retrieved from OnDemand. The installation requirements vary, depending on the viewers that the people in your organization need to use.

- To view line data documents, IBM recommends that you use the Line Data applet. The Line Data applet is stored on the Web server. After you enable the use of the Line Data applet, it is automatically loaded into memory on the workstation when the user selects to view a line data document. Verify that the LINEVIEWING parameter in the ARSWWW.INI file specifies the viewer that your users will be using.
- To view AFP documents, you can use the IBM OnDemand AFP Web Viewer, the AFP2HTML applet, or the Adobe Acrobat viewer.
 - To view AFP documents with the IBM OnDemand AFP Web Viewer, users must install it on their workstations.
 - To view AFP documents with the AFP2HTML applet, an administrator must install and configure the AFP2WEB Transform on the Web server and configure the ARSWWW.INI file. The AFP2HTML applet is stored on the Web server. After an administrator enables the use of the AFP2HTML applet, it is automatically loaded into memory on the workstation when the user selects to view an AFP document.
 - To view AFP documents with the Adobe Acrobat viewer, an administrator must install and configure the AFP2PDF Transform on the Web server and configure the ARSWWW.INI file. After an administrator enables the use of the transform, by default, the browser will attempt to start the Adobe Acrobat viewer when the user selects to view an AFP document. The user must obtain and install the Adobe Acrobat viewer on the workstation.

Verify that the AFPVIEWING parameter in the ARSWWW.INI file specifies the viewer that your users will be using.

- To view BMP, GIF, JPEG, PCX, and TIFF documents, IBM recommends that your users install the IBM OnDemand Image Web Viewer on their workstations; otherwise, they should use some other viewer that handles these types of documents. (For example, most browsers have built-in viewers capable of viewing GIF and JPEG.) If your users decide to use some other viewer, make sure that an administrator changes the default MIME content type for these types of documents. Verify that the parameters in the MIMETYPES section of the ARSWWW.INI file specify the viewers that your users will be using.

Notes:

1. To view other types of data, you may need to install other viewers. For example, to view PDF documents that are retrieved from the OnDemand server, IBM recommends that you obtain and install the Adobe Acrobat viewer for the browsers used in your organization.
2. The nppdf32.dll file is required in the browser plugin directory to view PDF documents. For Internet Explorer, it should be in the \Program Files\Internet Explorer\PLUGINS directory. For Netscape, it should be in the \Program Files\Netscape\Communicator\Program\Plugins directory. If the file is not in the browser directory, you will need to reinstall the Adobe software.

Requirements

The viewers that are provided by IBM require Netscape Navigator 4.06 or later or Microsoft Internet Explorer 4.01 or later.

ODWEK requires the ability to write cookie data on the client. Make sure that your users configure their browsers to accept cookies.

The applets that are provided by IBM require Java support in the browser. Java support is most likely provided by a Java Virtual Machine (JVM). If you are using Microsoft Internet Explorer Version 5.5, then when you install the browser, you must use the Custom installation option to select and install the JVM.

The browser must run under Windows® 2000, Windows 98, Windows NT® 4.0 with SP5 or later, or Windows XP and requires the following hardware and software:

- Physical connection to the network, such as a Token Ring or Ethernet network adapter
- TCP/IP
- A minimum of 32 MB of RAM
- An IBM-compatible PC with a 166 MHz or faster processor
- A super VGA display and adapter with a minimum resolution of 800 x 600
- A minimum of 20 MB of free disk space to view documents
- Approximately 3 MB on each workstation that needs the IBM OnDemand AFP Web Viewer and 2 MB on each workstation that needs the IBM OnDemand Image Web Viewer.

Installation

Note: If you plan to distribute user-defined files with the AFP Web Viewer, then you should configure the AFP Web Viewer installation file to hold the user-defined files before your users begin installing the AFP Web Viewer. See Appendix D, “Distributing user-defined files” on page 73 for more information.

The viewers that are provided by IBM are installed using self-extracting files. These files should be downloaded to the user's Windows 98, Windows NT, Windows 2000, or Windows XP system and run to install the appropriate viewer. If the user is running a browser while the installation is in progress, then the user must stop and restart the browser before the viewer can be used. The following viewer files can be found in the /QIBM/ProdData/OnDemand/www/plugins directory:

- afpplgus.exe - IBM OnDemand AFP Web Viewer - English only
- afpplgin.exe - IBM OnDemand AFP Web Viewer - All languages including DBCS support
- afpplgin.zip - IBM OnDemand AFP Web Viewer - Zip format for all languages include DBCS support
- imgplgin.exe - IBM OnDemand Image Web Viewer - All languages

The installation process copies the viewer and its associated files to directories of the user's choice. The AFP Web Viewer requires approximately 3 MB of space on the workstation. The Image Web Viewer requires approximately 2 MB of space on the workstation. Remind your users to restart their browser if it is active during the installation process.

Note: The installation program will install the viewers as either plug-ins or ActiveX controls. If Internet Explorer is installed on the workstation, then the installation program will install the ActiveX controls; if Netscape is installed on the workstation, then the installation program will install the plug-ins. If you have both Internet Explorer and Netscape installed on the workstation, then the installation program will install the ActiveX controls for Internet Explorer and the plug-ins for Netscape.

Your next step

After you have installed the ODWEK software, configured the ARSWWW.INI file, configured the sample applications, and installed the Web viewers, you can now begin using ODWEK.

Appendix A. AFP to HTML transform

The AFP to HTML transform process converts AFP documents and resources into HTML documents. The AFP to HTML transform process requires the AFP2WEB Transform service offering from IBM Printing Systems Division. An administrator must install and configure the AFP2WEB Transform on the Web server. See your IBM representative for more information about the AFP2WEB Transform service offering. Someone in your organization must also specify configuration options for the AFP documents and resources that you plan to process with the AFP2WEB Transform. This section describes how to specify the configuration options.

Note: In this document, the name AFP2HTML.INI refers to the configuration file. To specify the file that contains the configuration options, see “CONFIGFILE” on page 17.

The AFP2HTML.INI file provides configuration options for the AFP2WEB Transform. You typically configure the AFP2HTML.INI file with options for specific AFP applications. However, you can also provide a set of default options. The AFP2WEB Transform uses the default options when converting documents and resources for AFP applications that are not identified in the AFP2HTML.INI file. To learn more details about the options and the conversion process, see the AFP2WEB Transform documentation.

The following topics provide additional information about the AFP2HTML.INI file:

- Format of the AFP2HTML.INI file
- Options for the AFP2WEB Transform
- Viewing converted documents

Note: To convert documents with the AFP2HTML applet, you must also specify the AFPVIEWING=HTML parameter in the DEFAULT BROWSER section (or other browser sections) of the ARSWWW.INI file. See “AFPVIEWING” on page 27 for details. (If you plan to use the Retrieve Document API, then you should specify the _afp=HTML parameter. See “Retrieve Document” on page 63 for details.) You must also specify the directory that contains the AFP2WEB Transform programs (see “CONFIGFILE” on page 17).

Format of the AFP2HTML.INI file

The following is an example of an AFP2HTML.INI file:

```
[CREDIT-CREDIT]
UseApplet=FALSE
ScaleFactor=1.0
CreateGIF=TRUE
SuppressFonts=FALSE
FontMapFile=creditFontMap.cfg
ImageMapFile=creditImageMap.cfg

[default]
ScaleFactor=1.0
CreateGIF=TRUE
SuppressFonts=FALSE
FontMapFile=fontmap.cfg
ImageMapFile=imagemap.cfg
```

The structure of the file is similar to a Windows INI file, and contains one stanza for each AFP application and one default stanza. The title line of the stanza identifies the application group and application. For example, the title line:

```
[CREDIT-CREDIT]
```

Identifies the CREDIT application group and the CREDIT application. Use the – (dash) character to separate the names in the title line. The names must match the application group and application names defined to the OnDemand server. If the application group contains more than one application, then create one stanza for each application.

The options in the [default] stanza are used by the AFP2WEB Transform to process documents for AFP applications that are not identified in the AFP2HTML.INI file. The defaults are also used if an AFP application stanza does not include one of the options.

The UseApplet option is a directive to ODWEK. It determines whether the AFP2HTML applet will be used to view the output from the AFP2WEB Transform. The default value is TRUE. If you specify FALSE, (the AFP2HTML applet is not used to view the output), then the output is formatted and displayed by the Web browser.

The remaining five options are directives to the AFP2WEB Transform. “Options for the AFP2WEB Transform” briefly describes how they are used by the AFP2WEB Transform.

Options for the AFP2WEB Transform

Table 2 lists the options that you can specify in the AFP2HTML.INI file to convert documents with the AFP2WEB Transform.

Table 2. Options for the AFP2WEB Transform

Option in AFP2HTML.INI file	Description
AllObjects	Determines how ODWEK processes documents that are stored as large objects in OnDemand. The default value is 0 (zero), and means that ODWEK will retrieve only the first segment of a document. If you specify 1 (one), then ODWEK will retrieve all of the segments and convert them before sending the document to the client. Note: If you enable large object support for very large documents, then your users may experience a significant delay before they can view the document at the client.
ScaleFactor	Scales the output with the given scale factor. The default value is 1.0. For example, specifying a value of ScaleFactor=2.0 scales the output to be twice as large as the default size; specifying a value of ScaleFactor=0.5 scales the output to one half of the default size. The default size is derived from the Zoom setting on the Logical Views page in the OnDemand application.
SuppressFonts	Determines whether the AFP text strings are transformed. If you specify SuppressFonts=TRUE, any text that uses a font listed in the Font Map file is not transformed. The default value is FALSE, which means that all of the AFP text strings are transformed. The Font Map file is identified with the FontMapFile option

Table 2. Options for the AFP2WEB Transform (continued)

Option in AFP2HTML.INI file	Description
FontMapFile	Identifies the full path name of the Font Map file. The Font Map file contains a list of fonts that require special processing. The default Font Map file is named <code>imagfont.cfg</code> and resides in the directory that contains the AFP2WEB Transform programs. See the AFP2WEB Transform documentation for details about the Font Map file.
ImageMapFile	Identifies the image mapping file. The image mapping file can be used to remove images from the output, improve the look of shaded images, and substitute existing images for images created by the AFP2WEB Transform. Mapping images that are common across your AFP documents (for example, a company logo) reduces the time required to transform documents. If specified, the image mapping file must exist in the directory that contains the AFP2WEB Transform programs. See the AFP2WEB Transform documentation for details about the image mapping file.

Note: ODWEK sends the following options to the AFP2WEB Transform when converting documents. These options are not specified in the AFP2HTML.INI file.

- Orientation. Determines the rotation value to use when viewing the document. The default value is derived from the Orientation setting on the View Information page in the OnDemand application.
- Image Color. Determines the color to use when viewing images and graphics. The default value is derived from the Image Color setting on the Logical Views page in the OnDemand application.

Viewing converted documents

The `UseApplet` option in the AFP2HTML.INI file is a directive to ODWEK that determines whether the AFP2HTML applet will be used to view the converted output. The default value is `TRUE`. If you specify `FALSE`, (the AFP2HTML applet is not used to view the output), then the output is formatted and displayed by the Web browser.

In general, IBM recommends that you always use the AFP2HTML applet to view converted documents. If a document was stored in OnDemand as a large object, then the AFP2HTML applet adds controls to help users easily move to any page in the document.

Appendix B. AFP to PDF transform

The AFP2PDF Transform converts AFP documents and resources into PDF documents. The AFP2PDF Transform is a services offering from IBM Printing Systems Division. An administrator must install and configure the AFP2PDF Transform on the Web server. See your IBM representative for more information about the AFP2PDF Transform services offering. Someone in your organization must also specify configuration options for the AFP documents and resources that you plan to process with the AFP2PDF Transform. This section describes how to specify the configuration options.

Note: In this document, the name AFP2PDF.INI refers to the configuration file. To specify the file that contains the configuration options, see “CONFIGFILE” on page 19.

The AFP2PDF.INI file provides configuration options for the AFP2PDF Transform. You typically configure the AFP2PDF.INI file with options for specific AFP applications. However, you can also provide a set of default options. The AFP2PDF Transform uses the default options when converting documents and resources for AFP applications that are not identified in the AFP2PDF.INI file. To learn more details about the options and the conversion process, see the AFP2PDF Transform documentation.

The following topics provide additional information about the AFP2PDF.INI file:

- Specifying the AFP2PDF.INI file
- Viewing converted documents

Note: To convert documents, you must also specify the AFPVIEWING=PDF parameter in the DEFAULT BROWSER section (or other browser sections) of the ARSWWW.INI file. See “AFPVIEWING” on page 27 for details. (If you plan to use the Retrieve Document API, then you should specify the _afp=PDF parameter. See “Retrieve Document” on page 63 for details.)

Specifying the AFP2PDF.INI file

The following is an example of an AFP2PDF.INI file:

```
[CREDIT-CREDIT]
OptionsFile=
ImageMapFile=creditImageMap.cfg

[default]
OptionsFile=
ImageMapFile=imagemap.cfg
AllObjects=0
```

The structure of the file is similar to a Windows INI file, and contains one stanza for each AFP application and one default stanza. The title line of the stanza identifies the application group and application. For example, the title line:

```
[CREDIT-CREDIT]
```

Identifies the CREDIT application group and the CREDIT application. Use the – (dash) character to separate the names in the title line. The names must match the

application group and application names defined to the OnDemand server. If the application group contains more than one application, then create one stanza for each application.

The parameters that you specify in the [default] stanza are used by the AFP2PDF Transform to process documents for AFP applications that are not identified in the AFP2PDF.INI file. The default parameters are also used if an AFP application stanza does not include one of the parameters specified.

The OptionsFile parameter identifies the full path name of the file that contains the transform options used by the AFP2PDF Transform. The transform options are used for AFP documents that require special processing. See the AFP2PDF Transform documentation for details about the transform options file.

The ImageMapFile parameter identifies the image mapping file. The image mapping file can be used to remove images from the output, improve the look of shaded images, and substitute existing images for images created by the AFP2PDF Transform. Mapping images that are common in most of your AFP documents (such as a company logo) reduces the time required to transform documents. If specified, the image mapping file must exist in the directory that contains the AFP2PDF Transform programs. To specify the directory that contains the programs for the AFP2PDF Transform, see "INSTALLDIR" on page 19. See the AFP2PDF Transform documentation for details about the image mapping file.

The AllObjects parameter determines how ODWEK processes documents that are stored as large objects in OnDemand. The default value is 0 (zero), and means that ODWEK will retrieve only the first segment of a document. If you specify 1 (one), then ODWEK will retrieve all of the segments and convert them before sending the document to the client. **Note:** If you enable large object support for very large documents, then your users may experience a significant delay before they can view the document at the client.

Viewing converted documents

To view converted documents with the Adobe Acrobat viewer, you must obtain the viewer for the browsers used by your organization.

Appendix C. API reference

This chapter contains information about the programming functions that are available with ODWEK. This chapter is of primary interest to programmers responsible for integrating ODWEK with Web browsers.

Note: Parameter values are standard text. It is possible that the text could consist of characters that will confuse browsers. To prevent possible errors, you must code all special characters in their corresponding hexadecimal codes. These special characters include control characters and certain alphanumeric symbols. For example, the string:

The post date is 12/31/95

would be converted to:

The%20post%20date%20is%2012%2f31%2f95

Parameter values include folder names, folder field names, and search criteria.

Add Annotation

Add an annotation to the specified document

Purpose

The Add Annotation function enables users to add an annotation to the specified document. To add an annotation, the user must be given the Add Annotation permission in the OnDemand application group. (The Access permission also lets users add annotations.)

Parameters

Table 3. Add Annotation function

Name=Value	Purpose
_function=addnote	Add an annotation.
_server=value	The name of the OnDemand server.
_user=value	The OnDemand userid. The user must be given the Annotation Add permission for each application group that contains documents to be annotated. (The Application Group Access permission lets users add annotations.)
_password=value	The password for the user.
_folder=value	The name of the folder.
_perm=value	Determines whether the annotation is Public (0), Private (1), or Private for Group (2). Public annotations can be viewed by any user with View Annotation permission for the application group. Private annotations can be viewed by the user that created the annotation, application group administrators, and system administrators. Private for Group annotations can be viewed by users in the specified group, application group administrators, and system administrators. The _group parameter contains the name of the group. The default value is 0 (Public).
_group=groupName	If the _perm parameter is set to 2 (Private for Group), names the group.
_copy=value	Determines whether the annotation should remain attached to the document if the document is exported to another server. The default value is <i>off</i> , meaning the annotation is not attached to the document. A value of <i>on</i> means the annotation is attached to the document if the document is exported to another server.
_text=value	The text of the annotation.

Table 3. Add Annotation function (continued)

Name=Value	Purpose
<code>_html=value</code>	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, ODWEK uses the ADDNOTE.HTML file found in the directory named by the <code>TEMPLATEDIR</code> parameter in the <code>ARSWWW.INI</code> file. If the value is a file name without a path name, the file must be located in the directory named by the <code>TEMPLATEDIR</code> parameter. If the value includes a path name, the path should be relative to the directory named by the <code>TEMPLATEDIR</code> parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <code><!-- -AOI# Marker- -></code> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The <code>TEMPLATE.HTM</code> file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the add an annotation function.</p>
<code>_nohtml=value</code>	<p>Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, "No HTML output" on page 83 for details about the delimited ASCII output.</p>
<code>_docid=documentID</code>	<p>The identifier of the document to which the annotation is to be attached. The document identifier is returned by the Document Hit List function.</p>
<code>_port=value</code>	<p>The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (<code>WRKSRVTBLE</code>). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the <code>PORT</code> parameter in the <code>ARSWWW.INI</code> file.</p>
<code>_codepage=value</code>	<p>The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the <code>CODEPAGE</code> parameter in the <code>ARSWWW.INI</code> file.</p>

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=addnote
&_server=od400&_user=web&_password=web
&_folder=credit%20card%20statements
&_text=Test%20note%20from%20the%20OnDemand%20Internet%20Client
&_docid=6850-6851-SUA17-1FAAA-225712-1634-132014-132172-89-76-11-25-0
&_perm=1
```

Change Password

Change the OnDemand logon password

Purpose

The Change Password function permits users to change their OnDemand passwords.

Parameters

Table 4. Change Password function

Name=Value	Purpose
_function=chgpassword	Change the OnDemand password for the userid.
_server=value	The name of the OnDemand server.
_user=value	The OnDemand userid.
_password=value	The password for the userid.
_new_password=value	The new password for the userid.
_html=value	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the CHGPASSWORD.HTML file found in the directory named by the TEMPLATEDIR parameter in the ARSWWW.INI file. If the value is a file name without a path name, then the file must be located in the directory named by the TEMPLATEDIR parameter. If the value includes a path name, the path should be relative to the directory named by the TEMPLATEDIR parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <!-- -AOI# Marker- -> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The TEMPLATE.HTM file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the change password function.</p>
_nohtml=value	Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, "No HTML output" on page 83 for details about the delimited ASCII output.
_port=value	The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (WRKSRVTBLE). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the PORT parameter in the ARSWWW.INI file.
_codepage=value	The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the CODEPAGE parameter in the ARSWWW.INI file.

Table 4. Change Password function (continued)

Name=Value	Purpose
<code>_cgibin=program</code>	<p>Used by the CGI program when generating the next output page. If specified, then the page will contain a call to the specified program instead of the default program (ARSWWW.CGI). This parameter is primarily used by programmers who are creating a front-end CGI program or servlet to the CGI program or servlet provided by IBM.</p> <p>The <i>program</i> can name a directory that is relative to the ServerRoot directive or name an <i>alias</i> that is defined in the Web server configuration file. By default, ODWEK retrieves the CGI program from the CGI-BIN directory.</p>

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=chgpassword
&_server=od400&_user=web&_password=web
&_newpassword=newpw&_html=template.htm
```

Document Hit List

Display the list of documents that match the search criteria

Purpose

The Document Hit List function displays the list of documents that match the search criteria for a specific folder. Each document is represented by a link to the document on the OnDemand server. After clicking a document, ODWEK retrieves the document from the server and displays it in the browser window using the appropriate viewer.

Parameters

Table 5. Document Hit List function

Name=Value	Purpose
_function=dochitlist	Display list of documents that match the search criteria.
_server=value	The name of the OnDemand server.
_user=value	The OnDemand userid.
_password=value	The password for the userid.
_folder=value	The name of the folder.
<i>folder field name=value</i>	The name of a folder search field and the search value. You can specify one or more sets of field names and search values, up to the number of fields defined for the folder.
<i>folder field name2=value</i>	For folder search fields that use the BETWEEN or NOT BETWEEN search operators, the upper value with which to search the field.
_display_fields=value[,value,...]	A comma separated list that contains the names of the folder display fields. You can specify one or more field names. If you do not specify this parameter, the output page contains all of the folder display fields.
_sort_field=value	Determines the folder search field that OnDemand uses to sort items in the document list.
_sort_order=value	If the sort_field parameter is specified, determines whether OnDemand sorts items first to last or last to first. Specify an A (ascending) to sort items first to last. Specify any other character to sort items last to first (descending).
_max_hits=value	<p>Determines the maximum number of items that ODWEK returns to the document list, regardless of the number of items that match the query. ODWEK fills the document list with items that match a query in the order in which matching items were loaded into the database.</p> <p>ODWEK uses the first value specified to determine the number of items to return to the document list:</p> <ol style="list-style-type: none">1. The value of the Maximum Hits field (specified on the folder Permissions page). This value overrides all other values.2. The value of the _max_hits parameter, if specified. This value overrides the MAXHITS parameter from the ARSWWW.INI file.3. The value of the MAXHITS parameter, if specified.4. If none of the above are specified, ODWEK returns a maximum of 200 items to the document list.

Table 5. Document Hit List function (continued)

Name=Value	Purpose
<code>_html=value</code>	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the DOCHITLIST.HTML file found in the directory named by the <code>TEMPLATEDIR</code> parameter in the <code>ARSWWW.INI</code> file. If the value is a file name without a path name, then the file must be located in the directory named by the <code>TEMPLATEDIR</code> parameter. If the value includes a path name, then the path should be relative to the directory named by the <code>TEMPLATEDIR</code> parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <code><!-- -AOI# Marker- -></code> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The <code>TEMPLATE.HTM</code> file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the document hit list function.</p>
<code>_frame=value</code>	<p>The output of this command will include a <code>target=value</code> attribute. This parameter makes building HTML frames simpler. This is an optional parameter.</p>
<code>_datefmt=value</code>	<p>Determines the format of date values used by ODWEK to search the database and display items that match a query. The default date format is set on the folder Field Information page. See the <i>IBM Content Manager OnDemand for iSeries V5R1 Common Server Administration Guide</i>, SC27-1161 for details about date formats supported by OnDemand.</p>
<code>_nohtml=value</code>	<p>Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), ODWEK generates delimited ASCII output. See Appendix G, “No HTML output” on page 83 for details about the delimited ASCII output.</p>
<code>_port=value</code>	<p>The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (<code>WRKSRVTBLE</code>). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the <code>PORT</code> parameter in the <code>ARSWWW.INI</code> file.</p>
<code>_codepage=value</code>	<p>The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the <code>CODEPAGE</code> parameter in the <code>ARSWWW.INI</code> file.</p>

Table 5. Document Hit List function (continued)

Name=Value	Purpose
<code>_sql=string</code>	<p>Specifies the SQL query that OnDemand uses to search the folder. If you specify this parameter, the SQL query is used to search the folder rather than any folder field name/value pairs that may be specified. OnDemand does not validate the query string.</p> <p>When using an SQL string, you must specify application group database field names and values. If you plan to query date fields, you must specify OnDemand internal date values. For example, the date January 1, 1999 would be specified as 10593. You can use the ARSDATE command to list the internal date value for a given date.</p> <p>The SQL string is used to search all of the application groups contained in the folder. If the SQL string contains a database field name that is in one application group but not in another application group, then the query will fail.</p>
<code>_date1=value</code>	Use to specify the beginning date in a range of dates to search. If you specify the <code>_date1</code> and <code>_date2</code> parameters, OnDemand limits the query to the table or tables that contain one or both of the specified dates. The format of the date string that you specify must match the display format of the folder field. (You can use the administrative client to list the display format of the folder field.)
<code>_date2=value</code>	Use to specify the ending date in a range of dates to search. If you specify the <code>_date1</code> and <code>_date2</code> parameters, OnDemand limits the query to the table or tables that contain one or both of the specified dates. The format of the date string that you specify must match the display format of the folder field. (You can use the administrative client to list the display format of the folder field.)
<code>_cgibin=program</code>	<p>Used by the CGI program when generating the next output page. If specified, then the page will contain a call to the specified program instead of the default program (ARSWWW.CGI). This parameter is primarily used by programmers who are creating a front-end CGI program or servlet to the CGI program or servlet provided by IBM.</p> <p>The <i>program</i> can name a directory that is relative to the ServerRoot directive or name an <i>alias</i> that is defined in the Web server configuration file. By default, ODWEK retrieves the CGI program from the /QIBM/Proddata/OnDemand/www/bin directory.</p>
<code>_or=value</code>	Specify a 1 (one) to connect search fields using the OR logical operator; an item must match at least one of the specified search values. The default value is 0 (zero), which means that OnDemand connects search fields with the AND logical operator (an item must match all of the specified search values).

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=dochitlist
&_server=od400&_user=web&_password=web
&_folder=credit%20card%20statements
&account%20number=1000100010009999&date=1%2f1%2f96&date2=12%2f31%2f96
&_sort_field=date&_sort_order=D&_html=template.htm
```

Logoff

Logoff an OnDemand server

Purpose

The Logoff function attempts to log a user off an OnDemand server. The name of the server and the userid to log off are stored in a browser cookie on the client by the Logon function. If the server is not a valid OnDemand server, an error message is returned. If the userid is not logged on to the specified server, an error message is returned.

Parameters

Table 6. Logoff function

Name=Value	Purpose
<code>_function=logoff</code>	Log off an OnDemand server.
<code>_html=value</code>	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the LOGOFF.HTML file found in the directory named by the TEMPLATEDIR parameter in the ARSWWW.INI file. If the value is a file name without a path name, then the file must be located in the directory named by the TEMPLATEDIR parameter. If the value includes a path name, then the path should be relative to the directory named by the TEMPLATEDIR parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <!-- -AOI# Marker- -> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The TEMPLATE.HTM file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the logoff function.</p>
<code>_nohtml=value</code>	Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, "No HTML output" on page 83 for details about the delimited ASCII output.
<code>_port=value</code>	The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (WRKSRVTBLE). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the PORT parameter in the ARSWWW.INI file.

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=logoff
&_html=template.htm
```

Logon

Logon to an OnDemand server

Purpose

The Logon function attempts to access an OnDemand server using the values of the server, user, and password parameters. The Logon function verifies that the specified user is authorized to logon to the specified server and verifies the password. If the user is not authorized to logon to the server, an error message is returned. If the server is not a valid OnDemand server, an error message is returned. If the password is not valid for the user, an error message is returned. After a successful logon, the Logon function displays a Web page that contains a list of the folders that the user is authorized to access.

Parameters

Table 7. Logon function

Name=Value	Purpose
_function=logon	Logon to an OnDemand server.
_server=value	The name of the OnDemand server.
_user=value	The OnDemand userid.
_password=value	The password for the userid.
_new_password=value	The new password for the userid. Allows the password to be changed after successfully logging on to the OnDemand server. This is an optional parameter.
_html=value	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the LOGON.HTML file found in the directory named by the <code>TEMPLATEDIR</code> parameter in the <code>ARSWWW.INI</code> file. If the value is a file name without a path name, then the file must be located in the directory named by the <code>TEMPLATEDIR</code> parameter. If the value includes a path name, then the path should be relative to the directory named by the <code>TEMPLATEDIR</code> parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <!-- -AOI# Marker- -> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The <code>TEMPLATE.HTM</code> file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the logon function.</p>
_frame=value	The output of this command will include a <code>target=value</code> attribute. This parameter makes building HTML frames simpler. This is an optional parameter.
_datefmt=value	Determines the format of date values used by ODWEK to search the database and display items that match a query. The default date format is set on the folder Field Information page. See the <i>IBM Content Manager OnDemand for iSeries V5R1 Common Server Administration Guide</i> , SC27-1161 for details about date formats supported by OnDemand.

Table 7. Logon function (continued)

Name=Value	Purpose
<code>_nohtml=value</code>	Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, “No HTML output” on page 83 for details about the delimited ASCII output.
<code>_port=value</code>	The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (WRKSRVTBLE). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the PORT parameter in the ARSWWW.INI file.
<code>_codepage=value</code>	The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the CODEPAGE parameter in the ARSWWW.INI file.
<code>_cgibin=program</code>	<p>Used by the CGI program when generating the next output page. If specified, then the page will contain a call to the specified program instead of the default program (ARSWWW.CGI). This parameter is primarily used by programmers who are creating a front-end CGI program or servlet to the CGI program or servlet provided by IBM.</p> <p>The <i>program</i> can name a directory that is relative to the ServerRoot directive or name an <i>alias</i> that is defined in the Web server configuration file. By default, ODWEK retrieves the CGI program from the CGI-BIN directory.</p>

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=logon
&_server=od400&_user=web&_password=web
&_html=template.htm
```

Print Document (Server)

Sends one or more documents to the specified server printer

Purpose

The Print Document function sends copies of documents to an OnDemand server printer. To use the server print facility, the user must be given the Print Document permission in the OnDemand application group. (The Access permission also lets users print documents.) At least one server printer must be defined on the specified OnDemand server.

Parameters

Table 8. Print Document function

Name=Value	Purpose
_function=printdocs	Print documents.
_server=value	The name of the OnDemand server.
_user=value	The OnDemand userid. The user must be given the Document Print permission for each application group that contains documents to be printed. (The Application Group Access permission lets users print documents.)
_password=value	The password for the user.
_folder=value	The name of the folder.
_printer=value	<p>The name of the OnDemand server printer.</p> <p>When the specified printer is a FAX or a Printer with Information, then you can specify the following additional parameters:</p> <p>_recv_name=value The receiver's name.</p> <p>_recv_comp=value The receiver's company name.</p> <p>_recv_fax=value The receiver's fax number.</p> <p>_send_name=value The sender's name.</p> <p>_send_comp=value The sender's company name.</p> <p>_send_tel=value The sender's telephone number.</p> <p>_send_fax=value The sender's fax number.</p> <p>_send_cover=value A user-defined overlay that the Header Page Exit program merges with the values of the other parameters to produce a cover page for the document.</p> <p>_subject=value A string that represents the subject of the document.</p> <p>_notes=value A string that represents a note about the document.</p>

Table 8. Print Document function (continued)

Name=Value	Purpose
<code>_html=value</code>	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the PRINTDOCS.HTML file found in the directory named by the TEMPLATEDIR parameter in the ARSWWW.INI file. If the value is a file name without a path name, then the file must be located in the directory named by the TEMPLATEDIR parameter. If the value includes a path name, then the path should be relative to the directory named by the TEMPLATEDIR parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <!-- -AOI# Marker- - -> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The TEMPLATE.HTM file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the print documents function.</p>
<code>_nohtml=value</code>	<p>Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, "No HTML output" on page 83 for details about the delimited ASCII output.</p>
<code>_docids=documentIDList</code>	<p>A list of document identifiers for the documents to be printed. The document identifiers are returned by the Document Hit List function. If you specify more than one document identifier, then you must separate the document identifiers with the \003 character.</p> <p>Note: If the number of document identifiers exceeds 200, then you must specify the <code>_max_hits</code> parameter.</p>
<code>_port=value</code>	<p>The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (WRKSRVTBLE). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the PORT parameter in the ARSWWW.INI file.</p>
<code>_codepage=value</code>	<p>The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the CODEPAGE parameter in the ARSWWW.INI file.</p>

Table 8. Print Document function (continued)

Name=Value	Purpose
<code>_max_hits=value</code>	<p>Use this parameter to specify the number document identifiers to process. Specify a value that is equal to or greater than the number of document identifiers specified with the <code>_docids</code> parameter.</p> <p>Note: If the number of document identifiers exceeds the value specified by the MAXHITS parameter in the ARSWWW.CGI file (or 200, if not specified), then you must specify the <code>_max_hits</code> parameter. If you do not specify the <code>_max_hits</code> parameter (or you do not specify a value for the MAXHITS parameter), a maximum of 200 document identifiers will be processed, regardless of the number of document identifiers that you specified with the <code>_docids</code> parameter.</p> <p>ODWEK uses one of the following values to determine the number of document identifiers to process:</p> <ul style="list-style-type: none"> • The value of the <code>_max_hits</code> parameter, if specified. This value overrides the value of the MAXHITS parameter. • The value of the MAXHITS parameter, if specified. • If none of the above are specified, ODWEK processes a maximum of 200 document identifiers.

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=printdocs
&_server=od400&_user=web&_password=web
&_folder=credit%20card%20statements
&_printer=infoprint60
&_docids=6850-6851-SUA17-1FAAA-225712-1634-132014-132172-89-76-11-25-0
```

Retrieve Document

Retrieves the selected document from OnDemand

Purpose

The Retrieve Document function retrieves the selected document from the OnDemand server. ODWEK displays the document in the browser window using the applet, viewer, or other program that is associated with the document type.

Parameters

Table 9. Retrieve Document function

Name=Value	Purpose
_function=retrieve	Retrieve the selected document.
_server=value	The name of the OnDemand server.
_user=value	The OnDemand userid.
_password=value	The password for the userid.
_folder=value	The name of the folder.
<i>folder field name=value</i>	The name of a folder search field and the search value. You can specify one or more sets of field names and search values, up to the number of fields defined for the folder.
_html=value	<p>When an error occurs retrieving a document, determines the HTML file that ODWEK uses as a template to generate the (error) output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the RETRIEVE.HTML file found in the directory named by the TEMPLATEDIR parameter in the ARSWWW.INI file. If the value is a file name without a path name, then the file must be located in the directory named by the TEMPLATEDIR parameter. If the value includes a path name, then the path should be relative to the directory named by the TEMPLATEDIR parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <!-- -AOI# Marker- -> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The TEMPLATE.HTM file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the retrieve function.</p>
_nohtml=value	Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, "No HTML output" on page 83 for details about the delimited ASCII output.
_port=value	The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (WRKSRVTBLE). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the PORT parameter in the ARSWWW.INI file.

Table 9. Retrieve Document function (continued)

Name=Value	Purpose										
_codepage=value	The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the CODEPAGE parameter in the ARSWWW.INI file.										
_cgibin=program	<p>Used by the CGI program when generating the next output page. If specified, then the page will contain a call to the specified program instead of the default program (ARSWWW.CGI). This parameter is primarily used by programmers who are creating a front-end CGI program or servlet to the CGI program or servlet that is provided by IBM.</p> <p>The <i>program</i> can name a directory that is relative to the ServerRoot directive or name an <i>alias</i> that is defined in the Web server configuration file. By default, ODWEK retrieves the CGI program from the CGI-BIN directory.</p>										
_or=value	Specify a 1 (one) to connect search fields using the OR logical operator; an item must match at least one of the specified search values. The default value is 0 (zero), which means that OnDemand connects search fields with the AND logical operator (an item must match all of the specified search values).										
_afp=value	<p>When you retrieve an AFP document from the OnDemand server, the value of this parameter determines what action, if any, ODWEK takes before sending the document to the client. For example, some customers convert AFP documents to HTML with the AFP2WEB Transform and use the AFP2HTML applet to view the HTML output. Those customers should specify _afp=HTML so that ODWEK will convert the AFP document before sending it to the client.</p> <p>The <i>value</i> can be:</p> <table> <tr> <td>ASCII</td><td>ODWEK converts the AFP document to ASCII text.</td></tr> <tr> <td>HTML</td><td>ODWEK converts the AFP document to HTML with the AFP2WEB Transform.</td></tr> <tr> <td>NATIVE</td><td>ODWEK extracts and uncompresses the AFP document and its resources from OnDemand. Note: If you specify _afp=NATIVE, verify that the MIME content type identifies the viewer that you want to use (see "[MIMETYPES]" on page 20 for more information).</td></tr> <tr> <td>PDF</td><td>ODWEK converts the AFP document to PDF with the AFP2WEB Transform.</td></tr> <tr> <td>PLUGIN</td><td>ODWEK does not convert the AFP document (the default).</td></tr> </table>	ASCII	ODWEK converts the AFP document to ASCII text.	HTML	ODWEK converts the AFP document to HTML with the AFP2WEB Transform.	NATIVE	ODWEK extracts and uncompresses the AFP document and its resources from OnDemand. Note: If you specify _afp=NATIVE , verify that the MIME content type identifies the viewer that you want to use (see "[MIMETYPES]" on page 20 for more information).	PDF	ODWEK converts the AFP document to PDF with the AFP2WEB Transform.	PLUGIN	ODWEK does not convert the AFP document (the default).
ASCII	ODWEK converts the AFP document to ASCII text.										
HTML	ODWEK converts the AFP document to HTML with the AFP2WEB Transform.										
NATIVE	ODWEK extracts and uncompresses the AFP document and its resources from OnDemand. Note: If you specify _afp=NATIVE , verify that the MIME content type identifies the viewer that you want to use (see "[MIMETYPES]" on page 20 for more information).										
PDF	ODWEK converts the AFP document to PDF with the AFP2WEB Transform.										
PLUGIN	ODWEK does not convert the AFP document (the default).										
_email=value	<p>When you retrieve an EMAIL document from the OnDemand server, the value of this parameter determines what action, if any, ODWEK takes before sending the document to the client. The <i>value</i> can be:</p> <table> <tr> <td>NATIVE</td><td>ODWEK extracts and uncompresses the EMAIL document from OnDemand. Note: If you specify _email=NATIVE, verify that the MIME content type identifies the viewer that you want to use (see "[MIMETYPES]" on page 20 for more information).</td></tr> <tr> <td>HTML</td><td>ODWEK converts the EMAIL document to HTML.</td></tr> </table>	NATIVE	ODWEK extracts and uncompresses the EMAIL document from OnDemand. Note: If you specify _email=NATIVE , verify that the MIME content type identifies the viewer that you want to use (see "[MIMETYPES]" on page 20 for more information).	HTML	ODWEK converts the EMAIL document to HTML.						
NATIVE	ODWEK extracts and uncompresses the EMAIL document from OnDemand. Note: If you specify _email=NATIVE , verify that the MIME content type identifies the viewer that you want to use (see "[MIMETYPES]" on page 20 for more information).										
HTML	ODWEK converts the EMAIL document to HTML.										

Table 9. Retrieve Document function (continued)

Name=Value	Purpose
_line= <i>value</i>	<p>When you retrieve a line data document from the OnDemand server, the value of this parameter determines what action, if any, ODWEK takes before sending the document to the client. The <i>value</i> can be:</p> <p>APPLET ODWEK converts the line data document for viewing with the Line Data applet (the default).</p> <p>ASCII ODWEK converts the line data document to ASCII text.</p> <p>NATIVE ODWEK extracts and uncompresses the line data document from OnDemand.</p> <p>Note: If you specify _line=NATIVE, verify that the MIME content type identifies the viewer that you want to use (see “[MIMETYPES]” on page 20 for more information).</p>
_docid= <i>documentID</i>	The identifier of the document to be retrieved. The document identifier is returned by the Document Hit List function.

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=retrieve
&_server=od400&_user=web&_password=web
&_folder=credit%20card%20statements
&account%20number=1000100010009999&date=1%2f1%2f96
&_html=template.htm
```

Search Criteria

Display search criteria for a specific folder

Purpose

The Search Criteria function displays the search criteria for a specific folder using a form. The user can accept the default search criteria or enter search criteria to search for a specific document. After clicking the Submit button, ODWEK displays a Web page that lists the documents that match the search criteria.

Parameters

Table 10. Search Criteria function

Name=Value	Purpose
<code>_function=searchcrit</code>	Display search criteria for a specific folder.
<code>_server=value</code>	The name of the OnDemand server.
<code>_user=value</code>	The OnDemand userid.
<code>_password=value</code>	The password for the userid.
<code>_folder=value</code>	The name of the folder to search.
<code>_html=value</code>	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the SEARCHCRIT.HTML file found in the directory named by the TEMPLATEDIR parameter in the ARSWWW.INI file. If the value is a file name without a path name, then the file must be located in the directory named by the TEMPLATEDIR parameter. If the value includes a path name, then the path should be relative to the directory named by the TEMPLATEDIR variable.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <!-- -AOI# Marker- -> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The TEMPLATE.HTM file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the search criteria function.</p>
<code>_frame=value</code>	The output of this command will include a target=value attribute. This parameter makes building HTML frames simpler. This is an optional parameter.
<code>_datefmt=value</code>	Determines the format of date values used by ODWEK to search the database and display items that match a query. The default date format is set on the folder Field Information page. See the <i>IBM Content Manager OnDemand for iSeries V5R1 Common Server Administration Guide</i> , SC27-1161 for details about date formats supported by OnDemand.
<code>_nohtml=value</code>	Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, "No HTML output" on page 83 for details about the delimited ASCII output.

Table 10. Search Criteria function (continued)

Name=Value	Purpose
<code>_port=value</code>	The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (WRKSRVTBLE). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the PORT parameter in the ARSWWW.INI file.
<code>_codepage=value</code>	The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the CODEPAGE parameter in the ARSWWW.INI file.
<code>_cgibin=program</code>	<p>Used by the CGI program when generating the next output page. If specified, then the page will contain a call to the specified program instead of the default program (ARSWWW.CGI). This parameter is primarily used by programmers who are creating a front-end CGI program or servlet to the CGI program or servlet provided by IBM.</p> <p>The <i>program</i> can name a directory that is relative to the ServerRoot directive or name an <i>alias</i> that is defined in the Web server configuration file. By default, ODWEK retrieves the CGI program from the CGI-BIN directory.</p>

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=searchcrit
&_server=od400&_user=web&_password=web
&_folder=credit%20card%20statements&_html=template.htm
```

Update Document

Updates one or more database values for the specified document

Purpose

The Update Document function allows authorized users to update documents. The Update Document function updates one or more database values for a specific document.

Parameters

Table 11. Update Document function

Name=Value	Purpose
_function=updatedoc	Update the database.
_server=value	The name of the OnDemand server.
_user=value	The OnDemand userid. The user must have Update document permission for the application group.
_password=value	The password for the user.
_folder=value	The name of the folder.
<i>folder field name=value</i>	The name of the field that you want to update and the value that you want put in the field. You can specify one or more sets of field names and values, up to the number of fields defined for the folder.
_html=value	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the UPDATE.HTML file found in the directory named by the TEMPLATEDIR parameter in the ARSWWW.INI file. If the value is a file name without a path name, then the file must be located in the directory named by the TEMPLATEDIR parameter. If the value includes a path name, then the path should be relative to the directory named by the TEMPLATEDIR parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <!-- -AOI# Marker- -> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The TEMPLATE.HTM file is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the update function.</p>
_nohtml=value	Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, "No HTML output" on page 83 for details about the delimited ASCII output.
_docid=documentID	The identifier of the document to be updated. The document identifier is returned by the Document Hit List function.
_port=value	The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (WRKSRVTBLE). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the PORT parameter in the ARSWWW.INI file.

Table 11. Update Document function (continued)

Name=Value	Purpose
<code>_codepage=value</code>	The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the CODEPAGE parameter in the ARSWWW.INI file.

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=updatedoc
&_server=od400&_user=web&_password=web
&_folder=credit%20card%20statements
&account%20number=1000100010009999
&_docid=6850-6851-SUA17-1FAAA-225712-1634-132014-132172-89-76-11-25-0
&_html=template.htm
```

View Annotations

View annotations attached to the specified document

Purpose

The View Annotations function enables users to view the annotations attached to the specified document. To view annotations, the user must be given the View Annotation permission in the OnDemand application group. (The Access permission also lets users view annotations.)

Parameters

Table 12. View Annotations function

Name=Value	Purpose
_function=getnotes	View annotations.
_server=value	The name of the OnDemand server.
_user=value	The OnDemand userid. The user must be given the Annotation View permission for each application group that contains annotations to be viewed. (The Application Group Access permission lets users view annotations.)
_password=value	The password for the user.
_folder=value	The name of the folder.
_html=value	<p>Determines the HTML file that ODWEK uses as a template to generate the output Web page. The value can be a file name or an * (asterisk). If the value is an asterisk, then ODWEK uses the GETNOTES.HTML file found in the directory named by the TEMPLATEDIR parameter in the ARSWWW.INI file. If the value is a file name without a path name, then the file must be located in the directory named by the TEMPLATEDIR parameter. If the value includes a path name, then the path should be relative to the directory named by the TEMPLATEDIR parameter.</p> <p>The overall content of the HTML file is defined by the customer. However, the file must contain the following comment line: <!-- -AOI# Marker- -> The location of the comment line determines where ODWEK places its output. All lines above the comment line will be written before the output generated by ODWEK. All lines below the comment line will be written after the output generated by ODWEK.</p> <p>The TEMPLATE.HTM is the sample template file provided with ODWEK. You can use the sample template file to help create your own template file for the view annotations function.</p>
_nohtml=value	Determines the type of output generated by ODWEK. The default value is 0 (zero) and means that ODWEK generates HTML output. If you specify 1 (one), then ODWEK generates delimited ASCII output. See Appendix G, "No HTML output" on page 83 for details about the delimited ASCII output.
_docid=documentID	The identifier of the document that contains the annotations to be viewed. The document identifier is returned by the Document Hit List function.
_port=value	The port number for the OnDemand server. The default value, 0 (zero), means that the server uses the port number that is specified in the Service Table (WRKSRVTBLE). If there is no port number specified in the Service Table, then OnDemand attempts to use port number 1445. Any value that you specify overrides the value of the PORT parameter in the ARSWWW.INI file.

Table 12. View Annotations function (continued)

Name=Value	Purpose
<code>_codepage=value</code>	The code page of the OnDemand database. The default code page is the code page of the Web server. If the code page of the server is different than the code page of the database, then you must specify the code page. Any value that you specify overrides the value of the CODEPAGE parameter in the ARSWWW.INI file.

Sample Function Call

```
http://www.company.com/cgi-bin/arswww.cgi?_function=getnotes
&_server=od400&_user=web&_password=web
&_folder=credit%20card%20statements
&_docid=6850-6851-SUA17-1FAAA-225712-1634-132014-132172-89-76-11-25-0
```

Appendix D. Distributing user-defined files

You can distribute user-defined files with the IBM OnDemand AFP Web Viewer software that is supplied by IBM. For example, suppose that someone in your organization creates AFP font files for documents that are stored in OnDemand. You can distribute the font files with the AFP Web Viewer software. That way, when a user views an AFP document, the document will be displayed with the correct fonts.

To distribute user-defined files with the AFP Web Viewer, you must package the files into an installation file and store the installation file in a shared location. When a user runs the installation file, the Setup program automatically installs the AFP Web Viewer and the user-defined files on the user's workstation.

You can distribute the following types of user-defined files with the AFP Web Viewer:

- AFP font files. These files are copied to the FONT subdirectory of the AFP Web Viewer destination directory on the workstation.
- Adobe Type 1 font files. These files are copied to a directory specified by the user and installed in ATM by the Setup program.

Note: If ATM is not installed on the user's workstation, the Setup program copies the font files to a directory specified by the user. However, the Setup program does not install the fonts. If the user installs ATM on the workstation after running the installation file, then the user can install the fonts from the ATM applet in Control Panel.

- TrueType font files. These files are copied to the Windows FONTS directory and installed in Windows by the Setup program.
- Miscellaneous user-defined files. These files are copied to the AFP Web Viewer destination directory on the user's workstation.

Note: The Setup program copies user-defined files to the workstation after the AFP Web Viewer files that are supplied by IBM. If you name a user-defined file the same as one of the files supplied by IBM, then the user-defined file will replace the file supplied by IBM. You can take advantage of this feature, for example, to distribute an updated FLDPORT2.INI file or to distribute IBM AFP font files that your organization has modified.

The following topics contain more information about configuring and distributing the AFP Web Viewer:

- Install the AFP Web Viewer files supplied by IBM
- Add subdirectories to hold user-defined files
- Store user-defined files in subdirectories
- Configure font files
- Build the AFP Web Viewer installation file
- Install the AFP Web Viewer on a user's workstation

Installing the AFP Web Viewer files

Most customers use one of two ways to distribute the viewer files from a server, depending on whether they plan to distribute user-defined files with the AFP Web Viewer:

- **Standard Install.** Use to distribute the AFP Web Viewer files supplied by IBM and to prepare for distributing user-defined files with the AFP Web Viewer. When an administrator installs the ODWEK software on the Web server, the installation files for the viewers are stored in a directory on the server. There should be an installation file (EXE) for each viewer and a ZIP archive file for the AFP Web Viewer. The administrator typically moves the installation files to a public directory on the server and creates a Web page with the links to the files. A user installs a viewer by loading the web page into their browser and activating the link to the appropriate installation file.
- **Custom Install for the AFP Web Viewer.** Use to distribute user-defined files with the AFP Web Viewer.
 1. Set up the server for a Standard Install.
 2. Before any users actually install the viewer, obtain a copy of the AFP Web Viewer ZIP archive file.
 3. Extract the files from the ZIP archive file to an empty work directory.
 4. Add subdirectories to the work directory and store user-defined files in the directories. See “Adding subdirectories” and “Storing user-defined files” on page 75 for details.
 5. If distributing user-defined Adobe Type 1 font files, then create a font configuration file. See “Configuring font files” on page 75 for details.
 6. After all of the directories and files have been configured, create a self-extracting EXE file for distribution. See “Building the AFP Web Viewer installation file” on page 76 for details.
 7. Replace the EXE file provided by IBM for a Standard Install with the self-extracting EXE file that you built.
 8. After an administrator completes steps 1 through 7, users can install the AFP Web Viewer and the user-defined files by loading the web page into their browsers and activating the link to the updated installation file.

Adding subdirectories

The user-defined files that you plan to distribute must be stored in the CUSTOM subdirectory tree under the main client installation directory. For example, you could name the main client installation directory \ONDEMAND\AFP32.

To configure the main client installation directory to hold user-defined files:

1. Create a CUSTOM directory under the main client installation directory. For example:

\ondemand\afp32\custom

Note: The CUSTOM directory can hold other¹ user-defined files that you want to distribute to your users. The Setup program copies files from this directory to the AFP Web Viewer destination directory on the workstation.

1. Other than AFP font files, Adobe Type 1 font files, and Windows TrueType font files.

2. Add one or more of the following subdirectories to the CUSTOM directory. The subdirectories you add depend on the type of user-defined files that you want to distribute to your users.

- Create a FONT subdirectory under the CUSTOM directory to hold AFP font files (file types FNT and MAP). For example:

```
\ondemand\afp32\custom\font
```

The Setup program copies these files to the AFP Web Viewer FONT directory on the workstation.

- Create a TYPEONE subdirectory under the CUSTOM directory to hold Adobe Type 1 font files (file types PFB and PFM) and the font configuration file. For example:

```
\ondemand\afp32\custom\typeone
```

The Setup program copies these files to a directory specified by the user and installs the fonts in ATM.

- Create a TRUETYPE subdirectory under the CUSTOM directory to hold Windows TrueType font files (file type TTF). For example:

```
\ondemand\afp32\custom\truetype
```

The Setup program copies files from this directory to the Windows FONT directory and installs the fonts in Windows.

Storing user-defined files

After extracting the IBM-supplied installation files to the work directory and creating the CUSTOM directories, you can store the user-defined files in the individual subdirectories. For example, copy Adobe Type 1 font files (file types PFB and PFM) that you want to distribute to your users to the \ONDEMAND\AFP32\CUSTOM\TYPEONE directory.

Configuring font files

If you plan to distribute user-defined Adobe Type 1 font files to your users, then you must complete the following steps:

1. Store the user-defined Type 1 font files (file types PFB and PFM) in the TYPEONE subdirectory of the CUSTOM directory. See “Adding subdirectories” on page 74 for more information.
2. Create a Type 1 font configuration file. The following information describes how to create the Type 1 font configuration file.

The Type 1 font configuration file must be named ATM_INI.CFG and must be stored in the TYPEONE subdirectory of the CUSTOM directory. See “Adding subdirectories” on page 74 for more information about the distribution directories.

Each record (line) in the Type 1 font configuration file identifies one and only one user-defined Adobe Type 1 font that you want to distribute to your users. The format of a record is:

```
fontname=filename.PFM,filename.PFB
```

Where fontname is the name of the Type 1 font as it appears in the ATM Control Panel fonts list, filename.PFM is the name of the PFM file for the font, and filename.PFB is the name of the PFB file for the font. The following example shows a Type 1 font configuration file with two records:

Courier,BOLD=coub.pfm,coub.pfb
SonoranSansSerif_36,BOLDITALIC=c0a175z0.pfm,c0a175z0.pfb

The first record in the file identifies the font named Courier,BOLD and its PFM font file coub.pfm and PFB font file coub.pfb. The second record in the file identifies the font named SonoranSansSerif_36,BOLDITALIC and its PFM font file c0a175z0.pfm and PFB font file c0a175z0.pfb.

When a user runs a AFP Web Viewer installation file that contains user-defined Adobe Type 1 font files, the Setup program processes font files in the following way:

1. Copies all of the user-defined Adobe Type 1 font files (file types PFB and PFM) found in the TYPEONE directory to the destination directory. The user specifies the destination directory.
2. Verifies that two font files were copied for each font identified in the Type 1 font configuration file (ATM_INI.CFG). The name of the files copied to the workstation must match the names specified in the font configuration file.

Note: If the names of the font files specified in the font configuration file do not match the names of the files copied to the workstation, the Setup program displays a warning message and does not install the font.

3. Adds path information for the PFB and PFM files, using the destination directory specified by the user.
4. Installs the fonts in ATM.

Note: If ATM is not installed on the user's workstation, then the Setup program copies the font files to a directory specified by the user. However, the Setup program does not install the fonts. If the user installs ATM on the workstation after running the installation file, then the user can install the fonts with the ATM applet in Control Panel.

Building the AFP Web Viewer installation file

After you have finished creating directories and storing files in the CUSTOM directory tree, you must create an installation file that contains your user-defined files and the AFP Web Viewer files supplied by IBM. The installation file is usually named Setup.exe.

Several companies make software for packaging files and applications into a single, self-extracting AFP Web Viewer executable file for distribution. For example, the InstallShield Software Corporation offers a product called PackageForTheWeb.

Note: Software provided by other companies is not supported by IBM.

After you have obtained the packaging software, run it and follow the instructions provided to create a AFP Web Viewer installation file that contains your user-defined files and the AFP Web Viewer files supplied by IBM.

Installing the AFP Web Viewer on a user's workstation

After you set up the CUSTOM directory tree, build the AFP Web Viewer installation file, and replace the AFP Web Viewer installation file on the server, users can begin installing the AFP Web Viewer and the user-defined files. The next time a user activates the link to the AFP Web Viewer installation file from the server, the Setup program installs the AFP Web Viewer on the user's workstation

and copies all of the user-defined files that you packaged with the AFP Web Viewer installation file to the user's workstation.

Appendix E. HTTP server configuration files

This section contains examples of the following HTTP server configuration files:

- HTTP Original Server
- HTTP Apache Server

Note: Please consult your HTTP documentation for configuration assistance.

HTTP Original Server

Notes:

1. In the HostName line, replace the string **n.n.n.n** with the IP address of the iSeries machine that is running the OnDemand server software.
2. In the Port line, replace **p** with the TCP/IP port number used for the client and HTTP server to communicate. The default TCP/IP port number is 80.

```
# IBM HTTP Original Server configuration file
BindSpecific On
HostName n.n.n.n
Port p
Pass /applets/* /QIBM/ProdData/OnDemand/www/applets/*
Exec /scripts/arswww.cgi /QSYS.LIB/QRDARS.LIB/ARS3WCGI.PGM
Exec /scripts/arswww.cgi/*.* /QSYS.LIB/QRDARS.LIB/ARS3WCGI.PGM
Pass /logon /QIBM/UserData/OnDemand/www/samples/logon.htm
Pass /images/* /QIBM/UserData/OnDemand/www/images/*
ErrorLog /QIBM/UserData/OnDemand/www/logs/error_log 2000 *DFT *DFT
CgiErrorLog /QIBM/UserData/OnDemand/www/logs/cgi_error 2000
ErrorLogArchive None
ErrorLogExpire 0
ErrorLogSizeLimit 0
CGIConvMode %%EBCDIC/MIXED%%
MaxContentLengthBuffer 100 K
CgiThreadedMode Off
Disable CONNECT
Disable DELETE
Disable PUT
Enable GET
Enable HEAD
Enable OPTIONS
Enable POST
Enable TRACE
UserID %%SERVER%%
DNS-Lookup On
RuleCaseSense Off
Imbeds CGI html
MultiFormatProcessing Multi
```

HTTP Apache Server

Notes:

1. In the Listen line, replace the string **n.n.n.n** with the IP address of the iSeries machine that is running the OnDemand server software.
2. In the Listen line, replace **p** with the TCP/IP port number used for the client and HTTP server to communicate. The default TCP/IP port number is 80.

3. In the ServerName line, replace the string **f.q.h.n** with the fully-qualified TCP/IP host name of the iSeries machine that is running the OnDemand server software.

```
#HTTP Apache Server Configuration for the ODWAPACHE server
Listen n.n.n.n:p
HostNameLookups off
RuleCaseSense OFF
LimitRequestBody 102400
ErrorLog /www/odwapache/logs/error_log
ServerName f.q.h.n
DocumentRoot /www/odwapache
UseCanonicalName Off
CGIConvMode %%EBCDIC/MIXED%%
ScriptLogLength 200
ScriptLog /www/odwapache/logs/cgi_log
Alias /logon /www/odwapache/odw_logon.htm
AliasMatch ^/images/(.*)$ /QIBM/UserData/OnDemand/www/images/$1
AliasMatch ^/applets/com/ibm/edms/od/(.*)$ /QIBM/ProdData/OnDemand/www/applets/$1
AliasMatch ^/applets/(.*)$ /QIBM/ProdData/OnDemand/www/applets/$1
ScriptAliasMatch ^/scripts/arswww.cgi$ /QSYS.LIB/QRDARS.LIB/ARS3WCGI.PGM
ScriptAliasMatch ^/scripts/arswww\.cgi/(.*)$ /QSYS.LIB/QRDARS.LIB/ARS3WCGI.PGM
AddType www/unknown cab
AddType www/unknown jar
AlwaysDirectoryIndex On
DirectoryIndex index.html
<Directory/>
    Options None
    Options +ExecCGI
    AllowOverride None
    Order deny,allow
    Deny from all
    <LimitExcept GET HEAD OPTIONS TRACE POST PUT>
    </LimitExcept>
</Directory>
<Directory /QIBM/ProdData/OnDemand/www/applets/>
    Order allow,deny
    Allow from All
</Directory>
<Directory /QIBM/ProdData/OnDemand/www/images/>
    Order allow,deny
    Allow from All
    Options +FollowSymLinks
</Directory>
<Directory /QIBM/ProdData/OnDemand/www/samples/>
    Order allow,deny
    Allow from All
    Options +FollowSymLinks
</Directory>
<Directory /www/odwapache/>
    Order allow,deny
    Allow from All
</Directory>
<Directory /QSYS.LIB/QRDARS.LIB>
    Order allow,deny
    Allow from All
    Options +ExecCGI
</Directory>
```

Appendix F. Mapping AFP fonts

AFP fonts that a document was created with need to be mapped to fonts that can be displayed using the AFP plug-in. ODWEK provides font definition files that map the IBM Core Interchange (Latin only) and compatibility fonts to TrueType fonts. The font definition files and font map files are stored in the FONT subdirectory in which the AFP Web Viewer code resides.

If your documents use fonts that are not defined to the AFP Web Viewer, if you or others in your organization have modified the IBM Core fonts, or if you or others in your organization have created AFP fonts, then you must define the fonts in the font definition files so that the AFP Web Viewer can correctly display the documents. Refer to the *AFP Workbench Technical Reference* for details about how to map AFP fonts, font definition files, and other technical information related to AFP and TrueType fonts.

Appendix G. No HTML output

ODWEK uses the `_nohtml` directive to determine the type of output generated by a function (such as `Logon`). By default, ODWEK generates HTML output. If you specify `_nohtml=1`, then ODWEK generates delimited ASCII output. This chapter describes the delimited ASCII output generated by ODWEK.

Delimited ASCII output

The delimited ASCII output generated by ODWEK is a set of output records that contain character string values, keywords, and function, record, and string delimiters and separators:

- Character string values are output data of a function, other than keywords, delimiters, and separators. For example, the next function to be called, the name of the folder, the folder field names, search operators, and field values are character string values.
- Keywords consist of a specific character string. For example, ACTION, DOC, FOLDER, NUMROWS, and ROW are keywords.
- The function delimiters consist of the specific character strings [BEGIN] and [END].
- The record delimiter is the new line character, `\n`. All records are delimited by the new line character.
- By default, string delimiters and separators are the caret character (^) and the left bracket ([) and right bracket (]) characters. For example:
`[folderName^folderDesc]`

If a keyword record contains more than one character string value, then the values are separated by the caret character. Each keyword's set of character string values is delimited by the left bracket and right bracket characters.

Some character string values may be stored in a list, separated by the caret character and enclosed in left bracket and right bracket characters. For example, the list of valid search operators for a field may appear as follows:

```
[1^2^4^8^16^32]
```

You can override the default characters for the string delimiters and separators. See "[NO HTML]" on page 25 for details.

- A single null character string value is indicated by the absence of a value inside two double quote characters (""). A null list is indicated by the absence of a value inside left bracket and right bracket characters ([]).

Logon

The following shows an example of the delimited ASCII output generated by the `Logon` function:

```
[BEGIN]\nACTION=searchCriteriaUrl\nFOLDER=[folderName^folderDesc]\nFOLDER=[folderName^folderDesc]\n
```

```

:
[END]\n

```

Notes

1. The string `searchCriteriaUrl` identifies the name of the next function to be executed and its parameters.
2. The string `folderName` identifies a folder name. The name is not quoted.
3. The string `folderDesc` is the description of the folder. The description is not quoted.

Search Criteria

The following shows an example of delimited ASCII data generated by the Search Criteria function:

```

[BEGIN]\n
ACTION=hitListUrl\n
DISPLAY_ORDER=[field1^field2^...fieldN]\n
NUMROWS=numberOfRows\n
ROW=[criteriaName^[validOp]^defOp]^inpType^inpAssocData]\n
:
[END]\n

```

Notes

1. The string `hitListUrl` identifies the name of the next function to be executed and its parameters.
2. The `DISPLAY_ORDER` keyword specifies the order in which the folder fields should be displayed.
3. The string `numberOfRows` identifies the number of `ROW` keyword records that follow. The function generates one `ROW` keyword record for each search field.
4. The string `criteriaName` represents the search criteria for a search field. The search criteria is not quoted.
5. The string `validOp` is the list of integer values that represent the valid search operators for the search field:

1	Equal
2	Not Equal
4	Less Than
8	Less Than or Equal
16	Greater Than
32	Greater Than or Equal
64	In
128	Not In
256	Like
512	Not Like
1024	Between
2048	Not Between
6. The string `defOp` is an integer value representing the default search operator.
7. The string `inpType` represents the type of search field:

A	Annotation Text Search
C	Choice

N Normal
S Segment
T Text Search
Z Annotation Color Search

8. The string `inpAssocData` is a list associated with the `defOp` and `inpType`:

defOp	inpType	inpAssocData
Between, Not Between	N	Null: [] or a list: [defaultField1^...^defaultFieldN] For example: ["01/31/96"^"01/31/97"] ["01/31/96"^" ["^"01/31/97"]
Other valid operators	A, N, T, Z	Null: [] or a single string value that represents the default field value
Other valid operators	C, S	[[listOfChoices]^defaultChoice] For example: [["JFIF"^"TIFF"^"PCX"]^"TIFF"] [["JFIF"^"TIFF"^"PCX"]^" [["JFIF"^"TIFF"^"PCX"]^" [["JFIF"^"TIFF"^"PCX"]^" [["JFIF"^"TIFF"^"PCX"]^"

Document Hit List

The following shows an example of delimited ASCII output generated by the Document Hit List function:

```

[BEGIN]\n
ACTION=hitListURL\n
MSG=Only 20 documents can be listed for this folder.
DOC=[criterial^criteria2^criteriaN^docid^fileType^docLocation]\n
:
[END]\n

```

Notes

1. The string `hitListURL` identifies the name of the next function to be executed and the parameters for the function.
2. The `MSG` keyword shows an example of an error message in the delimited ASCII output. By default, ODWEK sends error messages to the client. However, when a function contains the `_nohtml=1` directive, ODWEK generates the message text in the delimited ASCII output instead.
3. The strings `criterial`, `criteria2`, and `criteriaN` represent search criteria values. The values are listed in the order in which they appear in the document list. The values are not quoted.
4. The string `docid` is the document identifier for the document.
5. The string `fileType` identifies the data type of the document:
 - A** AFP
 - B** BMP
 - E** Email
 - F** JFIF
 - G** GIF
 - L** Line
 - N** None

O	OD Defined
P	PDF
T	TIFF
U	User Defined
X	PCX

6. The string docLocation identifies the storage location of the document:

0	Unknown
1	OnDemand cache storage
2	Archive storage
3	External cache storage

View Annotations

The following shows an example of delimited ASCII output generated by the View Annotations function:

```
[BEGIN]\n
NOTE 4: 15:42:44 PM Mountain Standard Time Thursday November 19, 1998...\n
Public - Cannot be copied to another server\n
Test note from the OnDemand Internet Client.\n
[END]\n
```

Error Message

The following shows an example of delimited ASCII output generated when errors occur:

```
[ERROR]\n
ID=nnnn\n
MSG=errorMessageText\n
```

Notes

1. The string nnnn is the error message number.
2. The string errorMessageText is the error message text.

Appendix H. Problem determination tools

You can use the tools listed in Table 13 to gather information about the system and documents. You can use the information to help solve problems you are having configuring ODWEK and help other people in your organization who are having problems using the applets and plug-ins.

Table 13. Problem Determination Tools

Tool	Purpose	How to Enable
HTML Output	Save a copy of the HTML that ODWEK is returning to the browser.	Choose Save As from the browser's File menu
Server Log Files	Save access information, errors, and server information.	<p>Do the following:</p> <ol style="list-style-type: none">1. In the DEBUG section of the ARSWWW.INI file, set the LOG parameter to 1 (one). The log file that is generated by ODWEK is named ARSWWW.LOG and is written to the directory specified by the LOGDIR parameter. (The default directory is /QIBM/UserData/OnDemand/WWW/LOG.)2. Configure logging for your HTTP server. (Each HTTP server may have a different way to configure logging and may have different logs and options you can enable to collect more or less detailed information.) <p>Note: Because a significant amount of information can be written to a log file, IBM recommends that you enable logging only when needed, such as when recreating a problem. If you need to enable logging for extended periods of time, make sure that the log file paths point to storage devices with plenty of free space. Remember to periodically delete old log files from the server.</p>
Java Console	Display messages generated by the applets.	<ul style="list-style-type: none">• Netscape: From the Communicator menu, select Tools and then Java Console.• Internet Explorer:<ol style="list-style-type: none">1. From the View menu, select Internet Options.2. On the Advanced page, select Java Console.3. Restart the browser.4. From the View menu, select Java Console.

Table 13. Problem Determination Tools (continued)

Tool	Purpose	How to Enable
AFP Web Viewer Trace Facility	Capture detailed information about AFP documents being viewed with the AFP Web Viewer.	<p>Make sure the following section exists in the FLDPORT2.INI file on the user's workstation:</p> <pre>[Misc] ViewTraceFile=d:\temp\afpplogin.log Trace=TRUE</pre> <p>Verify the path of the log file. Remember to turn off logging when you have gathered the information you need.</p>
OnDemand System Log	Save system messages (such as log on and log off) and application group messages having to do with documents (such as query and retrieve) and annotations.	<p>Do the following:</p> <ol style="list-style-type: none"> 1. Enable system and application group logging for the OnDemand server. Update the system parameters for the server using the administrative client. 2. Enable the specific application group messages that you want to log. Update the message logging options for the application group using the administrative client.

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Index

Special Characters

@SRV@_DEFAULT section 9

@SRV@_server section 10

A

about the OnDemand Internet Connection 1

about this publication 1

add annotation

API 50

function description 3

parameters 50

sample function call 51

ADDEXTENSION parameter 26

ADDFIELDSTODOCID parameter 26

ADDNOTES parameter 27

AFP documents

converting 27

media type 21

MIME content type 21

viewing 27

AFP fonts

mapping 81

AFP Web Viewer

about 1

AFP fonts 81

customizing the installation 73

fonts 81

installing 39

installing user-defined files 73

mapping AFP fonts 81

requirements 40

user-defined files 73

AFP2HTML configuration file 43

AFP2HTML Java applet

about 1, 2

installing 39

large object support 17, 45

requirements 7, 40

AFP2HTML section 17

AFP2PDF configuration file 47

AFP2PDF Java applet

directory 19

enabling 19

AFP2PDF section 18

AFP2PDF Transform

configuring 47

enabling 18

installing 8

AFP2WEB Transform

configuring 43

enabling 17

installing 7

AFPVIEWING parameter 27

annotations 27, 32

API 50, 70

delimited ASCII output 86

function description 3, 4

parameters 50, 70

sample function call 51, 71

Apache HTTP server

configuration files 79

API

add annotation 50

annotations 50, 70

change password 52

document hit list 54

logoff 57

logon 58

print document 60

reference 49

retrieve document 63

search criteria 66

server print 60

update document 68

view annotations 70

APPLETDIR parameter 11

applets 11

about 1

directory 19

enabling 19

installing 39

large object support 17, 45

requirements 40

ARSWWW.INI file

@SRV@_DEFAULT section 9

@SRV@_server section 10

ADDEXTENSION parameter 26

ADDFIELDSTODOCID parameter 26

ADDNOTES parameter 27

AFP2HTML section 17

AFP2PDF section 18

AFP2PDF Transform 18

AFP2WEB Transform 17

AFPVIEWING parameter 27

APPLET parameter 11

ATTACHMENT IMAGES section 24

AUTODOCRETRIEVAL parameter 28

BEGIN parameter 25

browser options 32

browser section 32

CACHEDIR parameter 11

CACHEDOCS parameter 12

CACHEMAXTHRESHOLD parameter 12

CACHEMINTHRESHOLD parameter 12

CACHESIZE parameter 13

CACHEUSERIDS parameter 13

CODEPAGE parameter 14

CONFIGFILE parameter 17, 19

CONFIGURATION section 11

configuring 9

debug section 33

DEFAULT BROWSER section 26

EMAILVIEWING parameter 28

ENCRYPTCOOKIES parameter 29

ENCRYPTURL parameter 29

END parameter 25

HOST parameter 10

IMAGEDIR parameter 14

INSTALLDIR parameter 18, 19

LANGUAGE parameter 14

- ARSWWW.INI file (*continued*)
 - LINEVIEWING parameter 29
 - LOG parameter 33, 87
 - LOGDIR parameter 33
 - MAXHITS parameter 30
 - MIMETYPES section 20
 - NOHTML section 25
 - NOLINKS parameter 30
 - PORT parameter 9, 10
 - PROTOCOL parameter 10
 - REPORTSERVERTIMEOUT parameter 16
 - SECURITY section 16
 - SEPARATOR parameter 26
 - SERVERACCESS parameter 16
 - SERVERPRINT parameter 31
 - SERVERPRINTERS parameter 31
 - SHOWDOCLOCATION parameter 31
 - specifying 9
 - TEMPDIR parameter 15
 - TEMPLATEDIR parameter 16
 - USEEXECUTABLE parameter 18, 19
 - VIEWNOTES parameter 32
- ASCII output
 - annotations 86
 - document hit list 85
 - error message 86
 - format 83
 - generated by OnDemand 83
 - logon 83
 - messages 86
 - search criteria 84
 - view annotations 86
- ATTACHMENT IMAGES section 24
- attachments 24, 25
- AUTODOCRETRIEVAL parameter 28

B

- BEGIN parameter 25
- BMP attachments 24
- BMP documents
 - media type 21
 - MIME content type 21
- browser options
 - browser section 32
 - DEFAULT BROWSER section 26
- browser section 32
- browsers
 - cookies 40
 - Java Virtual Machine 40
 - JVM 40
 - supported 40

C

- cache directory 11
- cache documents 12
- cache size 13
- cache storage 11, 12, 13
- CACHEDIR parameter 11
- CACHEDOCS parameter 12
- CACHEMAXTHRESHOLD parameter 12
- CACHEMINTHRESHOLD parameter 12
- CACHESIZE parameter 13
- CACHEUSERIDS parameter 13

- change password
 - API 52
 - function description 3
 - parameters 52
 - sample function call 53
- code page 14
- CODEPAGE parameter 14
- communications protocols 10
- CONFIGFILE parameter 17, 19
- configuration
 - AFP2HTML configuration file 43
 - AFP2PDF configuration file 47
 - ARSWWW.INI file 9
 - ODWEK software 7
 - Web server 7
- CONFIGURATION section 11
- cookies 29, 40
- CREDIT.HTM 37

D

- data security 4
- debug section 33
- default browser options 26
- DEFAULT BROWSER section 26
- delimited ASCII output
 - annotations 86
 - delimiters 25
 - document hit list 85
 - error message 86
 - format 83
 - generated by OnDemand 83
 - logon 83
 - messages 86
 - search criteria 84
 - view annotations 86
- delimiters 25
- directory permissions 7
- display document location 31
- document hit list
 - API 54
 - delimited ASCII output 85
 - function description 3
 - parameters 54
 - sample function call 56
- document location 31
- documents
 - AFP 27
 - cache storage 12
 - converting 27, 28, 29
 - EMAIL 28
 - line data 29
 - links 30
 - media type 20
 - MIME content type 20
 - retrieving 28
 - viewing 27, 28, 29

E

- EMAIL documents
 - converting 28
 - media type 22
 - MIME content type 22
 - viewing 28
- EMAILVIEWING parameter 28

ENCRYPTCOOKIES parameter 29
encryption 29
ENCRYPTURL parameter 29
END parameter 25
error message
 delimited ASCII output 86
errors 87

F

fonts
 AFP 81
 mapping 81
 TrueType 81
functions
 add annotation 3
 annotations 3, 4
 change password 3
 document hit list 3
 logoff 4
 logon 4
 print document 4
 retrieve document 4
 search criteria 4
 server print document 4
 update document 4
 view annotations 4

G

GET method 5
GIF attachments 24
GIF documents
 media type 21
 MIME content type 21

H

help 87
host name 10
HOST parameter 10
HTTP server
 configuration files 79
 httpd.conf file 79
httpd.conf file 79

I

image directory 14
Image Web Viewer
 about 1
 installing 39
 requirements 40
IMAGEDIR parameter 14
inactivity time out 16
installation
 AFP Web Viewer 39
 AFP2HTML Java applet 39
 applets 39
 ARSWWW.INI file 9
 customizing 73
 Image Web Viewer 39
 Java applets 39
 line data Java applet 39
 ODWEK software 7

installation (*continued*)
 OS/400 8
 plug-ins 39
 requirements 7
 user workstation 39
 user-defined files 73
 Web server 7
INSTALLDIR parameter 18, 19

J

Java API
 about 1
 software requirement 1
Java applets
 about 1, 2
 directory 19
 enabling 19
 installing 39
 large object support 17, 45
 requirements 40
Java Virtual Machine 40
JFIF documents
 media type 22
 MIME content type 22
JVM 40

L

language 14
LANGUAGE parameter 14
large objects 17, 45
line data documents
 converting 29
 media type 22
 MIME content type 22
 viewing 29
line data Java applet
 about 1, 2
 installing 39
 requirements 40
LINEVIEWING parameter 29
links 30
log files 33, 87
LOG parameter 33, 87
LOGDIR parameter 33
logging 33, 87
logoff
 API 57
 function description 4
 parameters 57
 sample function call 57
logon
 API 58
 delimited ASCII output 83
 function description 4
 parameters 58
 sample function call 59

M

mapping AFP fonts 81
MAXHITS parameter 30
maximum hits 30
media type/subtype 20
messages 14

- messages (*continued*)
 - delimited ASCII output 86
- method attribute of form tag 5
- MIME content type 20
- MIMETYPES section 20

N

- NLS 14
- no HTML output 25, 83
- NOHTML section 25
- NOLINKS parameter 30
- notes 27, 32

O

- ODWEK software
 - installing 7
- OnDemand Internet Connection
 - about 1
- OnDemand server options
 - @SRV@_DEFAULT section 9
 - @SRV@_server section 10
 - defaults 9
 - HOST parameter 10
 - parameters 10
 - PORT parameter 9, 10
 - PROTOCOL parameter 10
- OS/400
 - installation 8
- output delimiters 25
- overview 1

P

- parameters
 - @SRV@_DEFAULT section 9
 - @SRV@_server section 10
 - ADDEXTENSION 26
 - ADDFIELDSTODOCID 26
 - ADDNOTES 27
 - AFP2HTML section 17
 - AFP2PDF section 18
 - AFPVIEWING 27
 - APPLETDIR 11
 - ATTACHMENT IMAGES section 24
 - AUTODOCRETRIEVAL 28
 - BEGIN 25
 - CACHEDIR 11
 - CACHEDOCS 12
 - CACHEMAXTHRESHOLD 12
 - CACHEMINTHRESHOLD 12
 - CACHESIZE 13
 - CACHEUSERIDS 13
 - CODEPAGE 14
 - CONFIGFILE 17, 19
 - CONFIGURATION section 11
 - EMAILVIEWING 28
 - ENCRYPTCOOKIES 29
 - ENCRYPTURL 29
 - END 25
 - HOST 10
 - IMAGEDIR 14
 - INSTALLDIR 18, 19
 - LANGUAGE 14
 - LINEVIEWING 29

- parameters (*continued*)
 - LOG 33, 87
 - LOGDIR 33
 - MAXHITS 30
 - NOLINKS 30
 - PORT 9, 10
 - PROTOCOL 10
 - REPORTSERVERTIMEOUT 16
 - SECURITY section 16
 - SEPARATOR 26
 - SERVERACCESS 16
 - SERVERPRINT 31
 - SERVERPRINTERS 31
 - SHOWDOCLOCATION 31
 - TEMPDIR 15
 - TEMPLATEDIR 16
 - USEEXECUTABLE 18, 19
 - VIEWNOTES 32

- PCX documents
 - media type 23
 - MIME content type 23

- PDF documents
 - media type 23
 - MIME content type 23

- permissions 7

- plug-ins
 - about 1
 - installing 39

- port number 9, 10
- PORT parameter 9, 10

- POST method 5

- preparing to use the OnDemand Internet Connection 1

- print document
 - API 60
 - function description 4
 - parameters 60
 - sample function call 62

- printing
 - server 31

- privileges 7
- problem determination 87
- PROTOCOL parameter 10
- protocols 10

Q

- query results 30

R

- Record Archive vii
- reference
 - API 49
- REPORTSERVERTIMEOUT parameter 16
- requirements
 - AFP2HTML Java applet 7
 - AFP2PDF Transform 8
 - AFP2WEB Transform 7
 - browsers 40
 - cache storage 7
 - cookies 40
 - document cache 7
 - Java API 1
 - Java Virtual Machine 40
 - server 7
 - Web server 7

- retrieve document
 - API 63
 - function description 4
 - parameters 63
 - sample function call 65
- retrieving
 - documents 28

S

- sample applications 37
- search criteria
 - API 66
 - delimited ASCII output 84
 - function description 4
 - parameters 66
 - sample function call 67
- security 4, 16, 29
- SECURITY section 16
- SEPARATOR parameter 26
- server access list 16
- server print
 - API 60
 - enabling 31
 - function description 4
 - parameters 60
 - sample function call 62
- server security 4, 16
- SERVERACCESS parameter 16
- SERVERPRINT parameter 31
- SERVERPRINTERS parameter 31
- SHOWDOCLOCATION parameter 31

T

- TCP/IP communications protocol 10
- TEMPDIR parameter 15
- template file 38
- TEMPLATE.HTM 38
- TEMPLATEDIR parameter 16
- temporary storage 15
- temporary work directory 15
- TIFF documents
 - media type 23
 - MIME content type 23
- time out 16
- tracing problems 87
- TrueType fonts
 - mapping AFP fonts to 81
- TXT attachments 25

U

- update document
 - API 68
 - function description 4
 - parameters 68
 - sample function call 69
- USEEXECUTABLE parameter 18, 19
- user-defined files
 - installing 73
- userid
 - cache storage 13

V

- view annotations
 - API 70
 - delimited ASCII output 86
 - function description 4
 - parameters 70
 - sample function call 71
- VIEWNOTES parameter 32

W

- Web applications
 - samples 37
- Web pages
 - samples 37
- Web server options
 - AFP2HTML section 17
 - AFP2PDF section 18
 - AFP2PDF Transform 18
 - AFP2WEB Transform 17
 - APPLETDIR parameter 11
 - ATTACHMENT IMAGES section 24
 - BEGIN parameter 25
 - browsers 26, 32
 - CACHEDIR parameter 11
 - CACHEDOCS parameter 12
 - CACHEMAXTHRESHOLD parameter 12
 - CACHEMINTHRESHOLD parameter 12
 - CACHESIZE parameter 13
 - CACHEUSERIDS parameter 13
 - CODEPAGE parameter 14
 - CONFIGFILE parameter 17, 19
 - CONFIGURATION section 11
 - debug 33
 - default browser 26
 - END parameter 25
 - IMAGEDIR parameter 14
 - INSTALLDIR parameter 18, 19
 - LANGUAGE parameter 14
 - MIMETYPES section 20
 - NOHTML section 25
 - REPORTSERVERTIMEOUT parameter 16
 - SECURITY section 16
 - SEPARATOR parameter 26
 - SERVERACCESS parameter 16
 - TEMPDIR parameter 15
 - TEMPLATEDIR parameter 16
 - USEEXECUTABLE parameter 18, 19
- Web server software
 - installing 7



Program Number: 5722-RD1



Printed in the United States of America
on recycled paper containing 10%
recovered post-consumer fiber.

SC27-1163-01



Spine information:



IBM Content Manager OnDemand
for iSeries Common Server

Web Enablement Kit
Installation and Configuration Guide

Version 5 Release 2